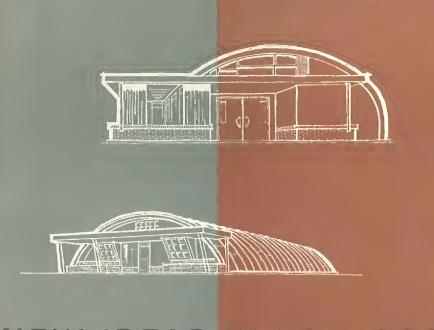


ASSEMBLY AND SPECIFICATION MANUAL





NEW IDEAS IN LOW-COST BUILDINGS



Wonder Building® Structures



AGRICULTURE

TRANSPORTATION

### plan BIG!

you can afford to when you build

Give your planning free reign — build the way you want and still stay within your budget! With Wonder Building, there's no high price tag to limit the versatility of your design, no need to compromise on space, strength or functional beauty.

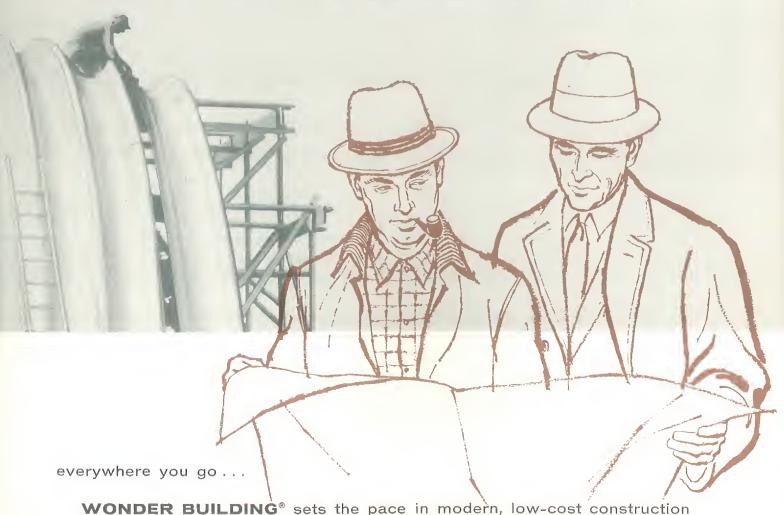
The reason is Wonder Building pre-engineered, *unitized* design which utilizes double-corrugated steel panels to form a self-supporting structure. This versatile new building technique eliminates costly excavation, extensive foundations . . . panels form roof, ceiling and sides. Cuts building costs, erection time 50%!

Highest structural strength is achieved and code requirements met without posts, pillars, trusses — without a framework of any kind. Floor area is completely unobstructed. All-steel construction means durability, long life — with less maintenance. Fire-resistant!

You can build to practically any design with Wonder Building standard structures — in a wide range of widths, any length.

As a structural component, Wonder Building panels are compatable with new or existing architecture.

the WONDER BUILDING® WAY!



Smart, modern interpretations or standard work-a-day structures — Wonder Building design is completely functional and versatile for every use. Here are just a few of the many Wonder Building applications.

- churches warehouses manufacturing plants aircraft hangars offices exhibit halls
- gymnasiums auto washes clubs drive-ins farm buildings supermarkets

### slash building costs, construction time right down the middle!



Each Wonder Building panel is Coro-Crimped in a series of small corrugations. Assembled panels form 2-foot corrugations. The combination results in the amazing DOUBLE CORRUGATION design—strongest in the building industry!



You can put up a Wonder Building structure and start using it in just half the time it takes to construct other buildings! And you can figure on saving 50% in labor and construction costs in the bargain! The reason? Simple, uncomplicated building plans. You can even do it yourself! Patented Wonder Building panels are heavygauge, zinc-coated steel — double-curved and corrugated to form rigid, self-supporting arches. Bolted construction assures fast, low-cost erection. No costly framework...no posts, pillars, braces or trusses. The only foundation needed is a concrete slab. The Wonder Building system makes conventional construction obsolete — you pocket the difference in time and labor savings!

### 1. START WITH A SLAB

Low cost foundation . . . sImple "floating" concrete slab with channel for sides of the structure.

### 2. FAST ASSEMBLY

Precision-made panels bolt together quickly to form selfsupporting arches. Caulking assures a weather-tight seal.

### 3. SIMPLE SCAFFOLDING

A rough support to hold halfarches in position speeds erection.

### 4. ARCH CONSTRUCTION

Half-arches are set on scaffolding, lapped and bolted together to complete the full arch.

### 5. BUILDING IS COMPLETED

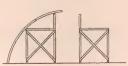
Arches are progressively joined together until structure is completed. Arch bases are sealed with concrete in foundation channel.

### 6. ACCESSORIES

All-steel end walls are available in a wide variety of designs. Choice of doors and windows—ventilators. Translucent fiberglass panels in stock for natural lighting. Easily insulated.













### SYMBOL OF SIMPLICITY

No other type of structure can be erected so simply and economically. Arch panels assemble with one size bolt. Only fastener required. Weather sealed with neoprene washers. 50% of construction labor is done on the ground—saves time, cuts cost.



### BASIC DESIGNS.... you can

### STRAIGHT WALL

Popular "U" design — available in many different types. 100% usable wall area. Highly adaptable to component styling ideal for churches, clubs, stores, offices, warehouses.

	Туре	Outside width	Center height
	1600 GR	17'	10'
	2100 GR	20'	11'-8"
	2300 GR	26'	12'
	3100 GR	33′	15'
	3800 GR	35'	16'
	4100 GR	41'	17′
	5100 GR	48'	19'
	5700 GR	56'	20'
	6100 GR	62'	22'



Wonder Building structure resulted in this modern church at Denver, Colorado.

### SEMI-CIRCULAR WALL

Provides maximum utility and economy. Many types available. 100% unobstructed floor space. Can be ordered in sizes up to 64 feet wide in any length. Easy to expand. Low maintenance.

Туре	Outside width	Center height
300 GR	30,	14'
400 GR	40'	17'
600 GR	62'	21'
3500 GR	35'	15'
4400 GR	41'	20'-4"
5200 GR	51'	18'
6300 GR	64'	23'
7100 GR	70′	24'



### "TRUSS-SKIN" ROOF SYSTEM

Most practical, lowest cost way to cover or enclose vast areas...aircraft hangars, sports arenas, super-markets. Heavy-gauge arch steel panels form self-supporting roof without posts, braces, or trusses of any kind . . . provide strength, stability. Fire-resistant. Easily, quickly erected. Roofing is not required — structure and roof are one! "Truss-Skin" Roof Systems are available in widths from 20 to 300 feet. Unlimited lengths.



### n go on from there!













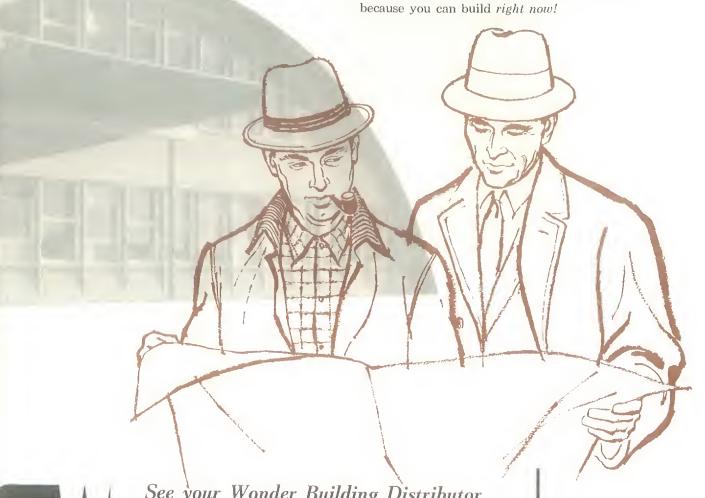






WONDER BUILDING ... PRACTICAL, LOW-COST ANSWER TO QUICK OCCUPANCY...

> You could even start tomorrow! Wonder Building gives you economy in design and construction, speed of erection no other type of building can equal! Every panel is precision-made at the factory ... structures go up fast — in a matter of days. And there are no hidden costs when you purchase a Wonder Building structure it arrives at the construction site as a completely packaged unit. Important reasons for accellerating your building program with a modern low-cost Wonder Building structure . . .





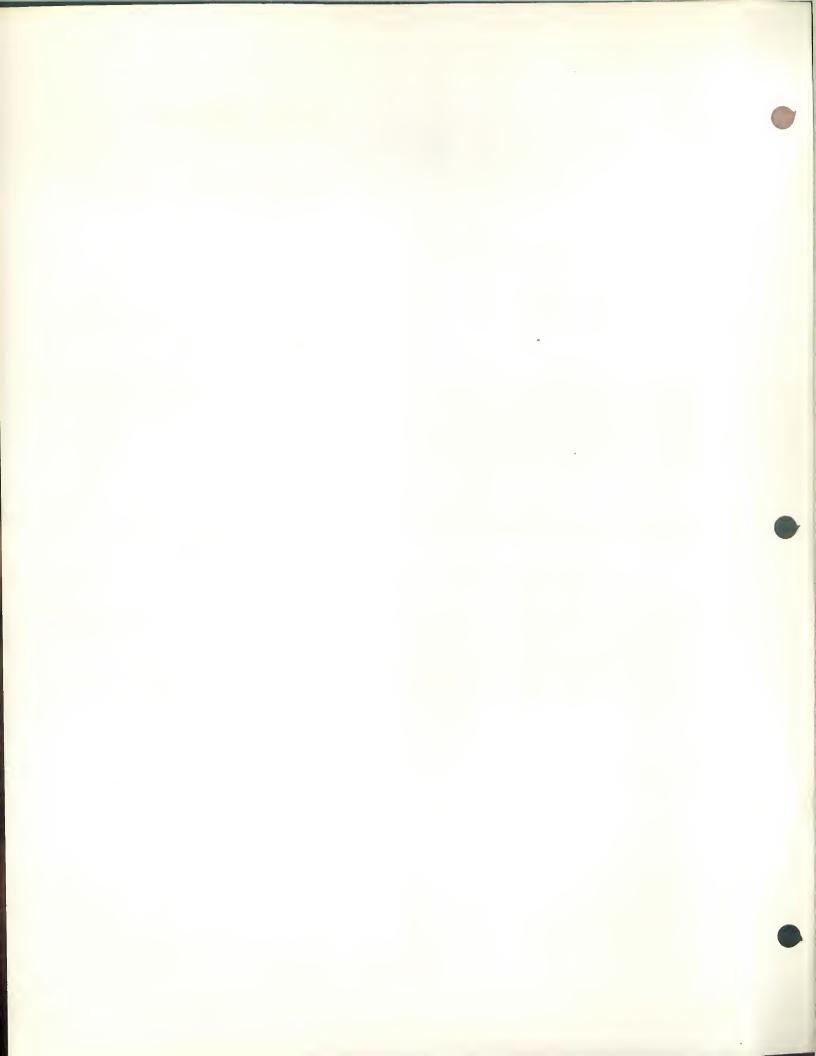
See your Wonder Building Distributor

- tor information on specific construction, cost estimates and planning assistance. He can help you make your building plans a reality.

wonder trussless building, inc. 2901 South Cicero Avenue, Chicago, Illinois 60650



this panel supports itself...

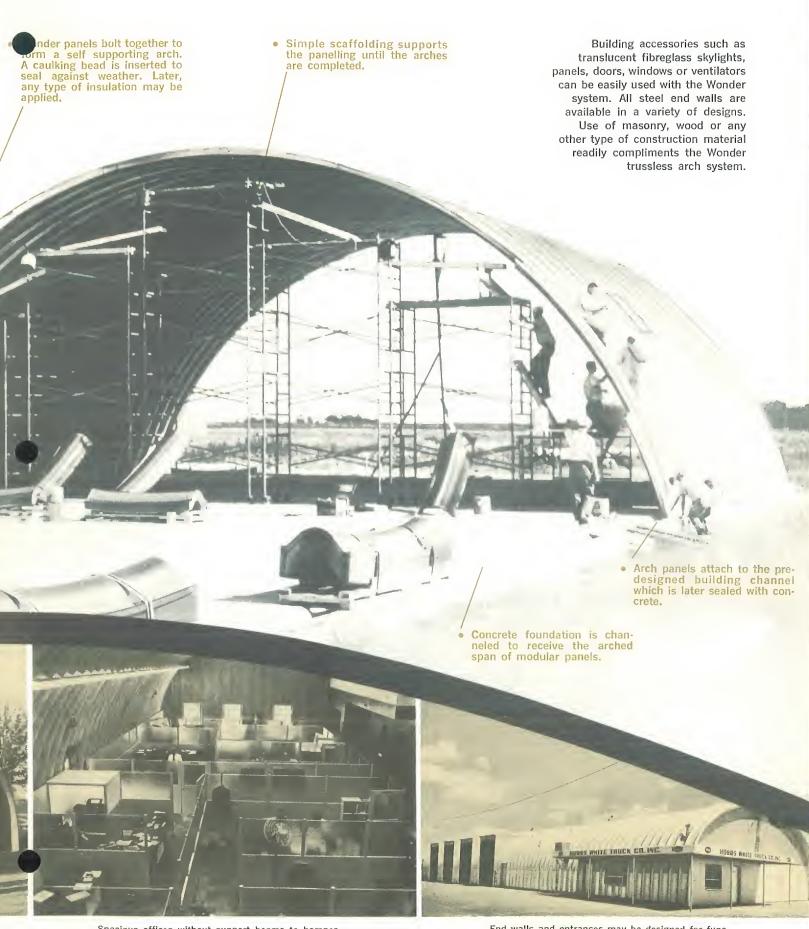


# wonder solutions to industrial building construction





Simple bolted assembly . . . the only fastener required for the trussless arch building is simple nuts and bolts that securely fasten the panels together.



Spacious offices without support beams to hamper layout. Translucent fibreglass arch skylight, panels or side windows can be utilized for natural lighting.

End walls and entrances may be designed for functional beauty to suit any architectural style or engineered for the entry of heavy equipment.

### Semi-Circular Wall

Provides buildings up to 64 feet wide with 100% useable floor space. Highly adaptable for manufacturing areas, laboratory facilities or service areas.

Type	Outside width	Center height	
300 GR	30′	14′	
400 GR	40′	17'	
600 GR	62'	21'	
3500 GR	35'	15'	
4400 GR	41′	20'-4"	
5200 GR	51'	18′	
6300 GR	64'	23'	
7100 GR	70'	24'	

### Straight Wall

Versatile "U" design, the most popular industrial type building, provides 100% useable wall area. Especially adaptable for offices or warehousing.

Туре	Outside width	Center height
1600 GR	17'	10'
2100 GR	20'	11'-8"
2300 GR	26'	12'
3100 GR	33'	15'
3800 GR	35'	16'
4100 GR	41'	17'
5100 GR	48'	19'
5700 GR	56'	20'
6100 GR	62'	22'

# Basic Designs . . .

### **Trussless Roof Systems**

Structure and roof are unified in this low cost method to enclose a large area. Trussless systems can be provided for widths from 20 to 300 feet spans in unlimited lengths.

## Wonder engineering assistance...

Wonder Building's engineered consultation is always available for any of your expansion or new construction programs. Complete design data and technical details will be furnished to you or your architect to assist in the erection of the most economical . . . the most functional . . . and the most durable building ever produced. Call the factory — or your local Wonder distributor.





Wonder Trussless Building, Inc.

# year 'round fun ...the wonder way!





### for low cost construction . . .

Wonder buildings offer architectural beauty plus maximum economy in the construction of recreational structures. Gymnasiums, auditoriums, pool facilities, skating rinks, firing ranges and other uses. Trussless buildings can be erected at a 50% savings in labor and construction time. Wonder trussless buildings are completely factory engineered to your exact requirements to provide maximum floor space use.

Recreational facilities built the Wonder trussless way combine the type of beauty and economy that has gained wide approval of municipal and institutional planning boards. Design versatility plus early occupancy permits recreational programs to procede on schedule in the most modern facilities.

Wonder buildings' pre-engineered building system features modular, double corrugated steel arch panels that bolt together to form a completely self-supporting span. No trusses or frames are required regardless of span width. All Wonder trussless buildings are fire resistant, leak proof and withstand winds up to 140 m.p.h. Investigate Wonder's unique system when planning your recreational facilities and get the complete facts on ruggedness and building economy.



Simple bolted assembly . . . the only fastener required for the trussless arch building is simple nuts and bolts that securely fasten the panels together.

- Building accessories such as translucent fibreglass skylights, panels, doors, windows or ventilators may be easily installed. All-steel end walls are available in a variety of designs; however, masonry, wood or other types of construction materials may be incorporated into the building design.
- Simple scaffolding supports the panelling until the arches are completed.
- Wonder panels bolt together to form a self-supporting arch. A caulking bead is inserted to seal against weather. Later, any type of insulation may be applied.

All the Wonder building materials arrive at the job site in one complete package, including construction details. They can be quickly assembled by unskilled labor to complete your recreational building in a matter of days! No special construction equipment is required . . . the precision fit, modular arch panels assure a tight, sturdy structure.

- Arch panels attach to the predesigned building base connector which is later sealed with concrete.
  - Base connector, embedded in the concrete foundation, receives the patented corrugated arch panels.



# Basic Designs . . .

### Semi-Circular Wall

Provides buildings up to 64 feet wide with 100% useable floor space. Highly adaptable for manufacturing areas, laboratory facilities or service areas.

Type	Outside width	Center height
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Versatile "U" design, the most popular industrial type building, provides 100% useable wall area. Especially adaptable for offices or warehousing.

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3800 GR	35'	16'
4100 GR	(41)	17'
5100 GR	481	19'
5700 GR	56'	20'
6100 GR	62'	22'

### **Trussless Roof Systems**

Structure and roof are unified in this low cost method to enclose a large area. Trussless systems can be provided for widths from 20 to 300 feet spans in unlimited lengths.

Wonder engineering assistance.

Engineering consultation from Wonder building is always available to assist in planning your recreational building. Complete design data and technical details can be furnished to you or to your architect to aid in the erection of the most economical . . . the most functional . . . and the most durable building ever produced. Call the factory or your local Wonder Building distributor.





Wonder Trussless Building, Inc.

2901 South Cicero Avenue

Chicago, Illinois 60650



WHEN THE ALABM BINGS





that even an internal fire cannot destroy the recombustible mateling. It the WONDER roof system stayed intact.

Inspection showed that the roof system was as

The owner, Mr. Edmund Grub, was delighted that he had chosen a WONDER BUILDING structure. The neighbors were also happy that the WONDER BUILDING structure was there since it served as a perfect fire wall and without a doubt saved some of the homes in the area from destruction. Mr. Grub said, "I'm glad and delighted the WONDER BUILDING people sold me on the idea of their building."

### HOW MANY \$ CAN A WONDER BUILDING STRUCTURE SAVE YOU IF YOU DO OR DON'T HAVE A FIRE

The Wonder building structure is of incombustible construction which produces a low insurance rate in comparison to other types of construction that would be required to produce a lower rate. By comparison, the strictly fireproof building with reinforced concrete roof, 12 inch brick walls, cement floor and all steel supports protected by concrete would produce a rate of approximately 15¢ in a town of 7th Class fire protection. Comparing the

Wonder building structure with this class of construction in the same type of fire protection, the Wonder building structure produces a rate of approximately \$.179. However, as a matter of comparison with a building of hollow concrete block walls, cement floor, and wood joisted floor, we are showing the comparative charges that would be applied in a town having fire hydrants and fire departments grading Class 7.

	Wonder Bldg. Structure	Hollow Concre Block Bldg.	
Basis rate, with exclusively incombustible contents	.132	.392	.132
Area 40x60 (2400 sq. ft.)			
100% steel perimeter	.016		
100% HCB perimeter		.118	
Fireproofing of steel	.011		
Interior finish, none			
Combustible eaves .,		.020	
Exposures			
Stove pipe through roof		.078	
Occupancy metalworker (25-10)	.010	.134	.010
Wiring defects	.01	.03	.01
Building Rate per \$100 of insurance per year	.179	.771	.152

The above rate analysis gives a comparison of the gross building rates between the Wonder building structure and a very common type of present day construction as well as with the strictly fireproof, reinforced concrete and brick building which shows that the rate for a Wonder Building structure is slightly higher than a strictly fireproof brick build-

You can have all the safety and advantages of a custom designed building at up to 50% savings in time and labor by using WONDER BUILDING trussless construction.

Wonder building's pre-engineered building system features modular, double corrugated, steel, arch panels that bolt together to form a completely self-supporting structure. No trusses or frames are required, regardless of span width. All Wonder trussless buildings are fire resistant, leak proof, and withstand winds up to 140 M.P.H.

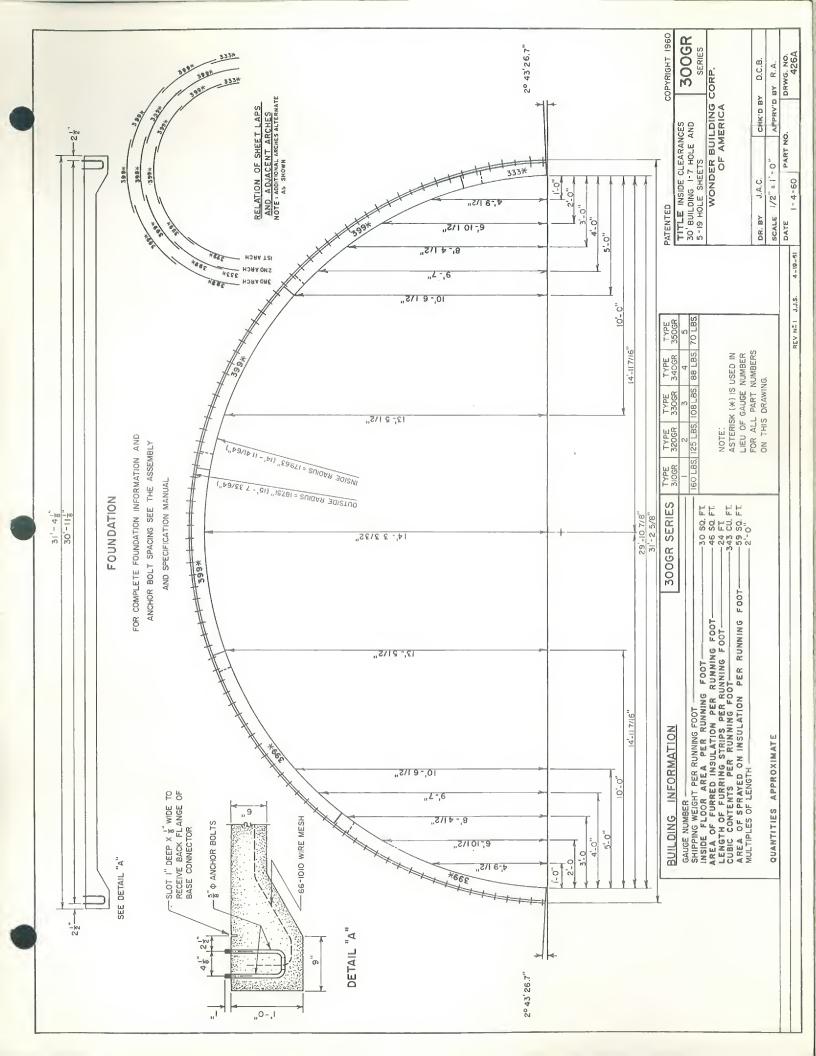
ing, but considerably lower than the ordinary concrete block, wood joisted roof building. These rates, of course, contemplate strictly incombustible contents, if occupied by combustible contents the rates vary depending upon degree of combustibility of the contents.

### Wonder Trussless Building, Inc.

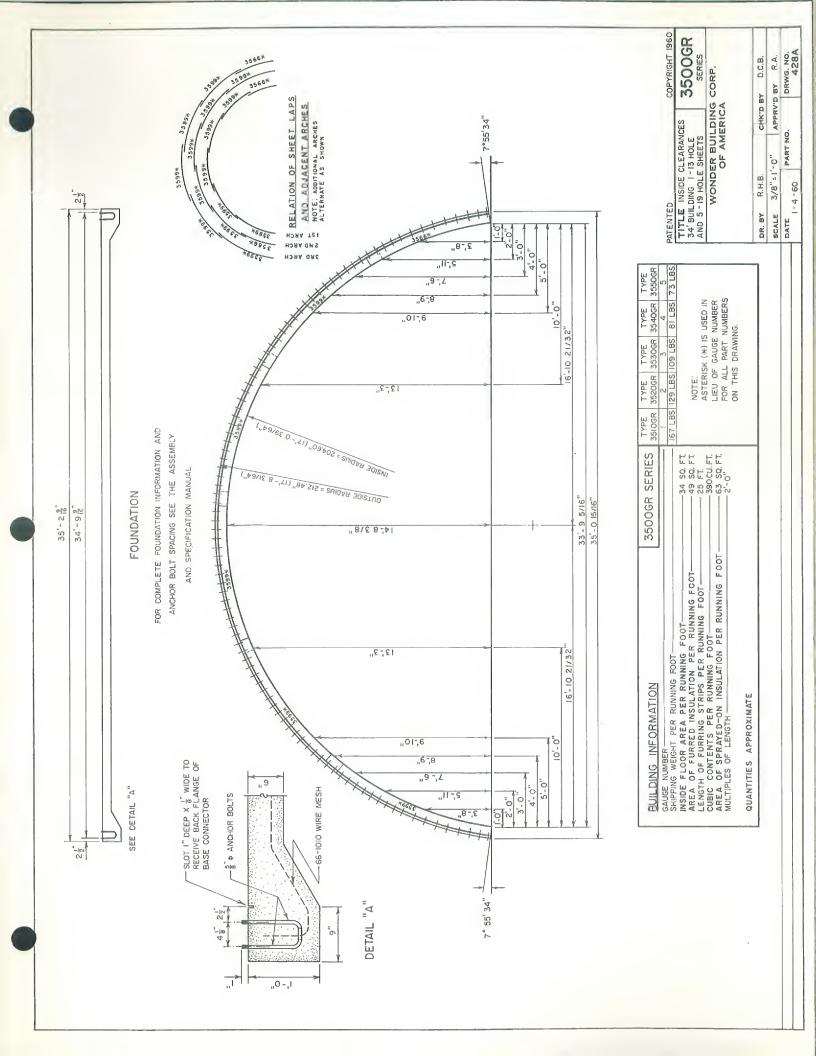
2901 South Cicero Avenue

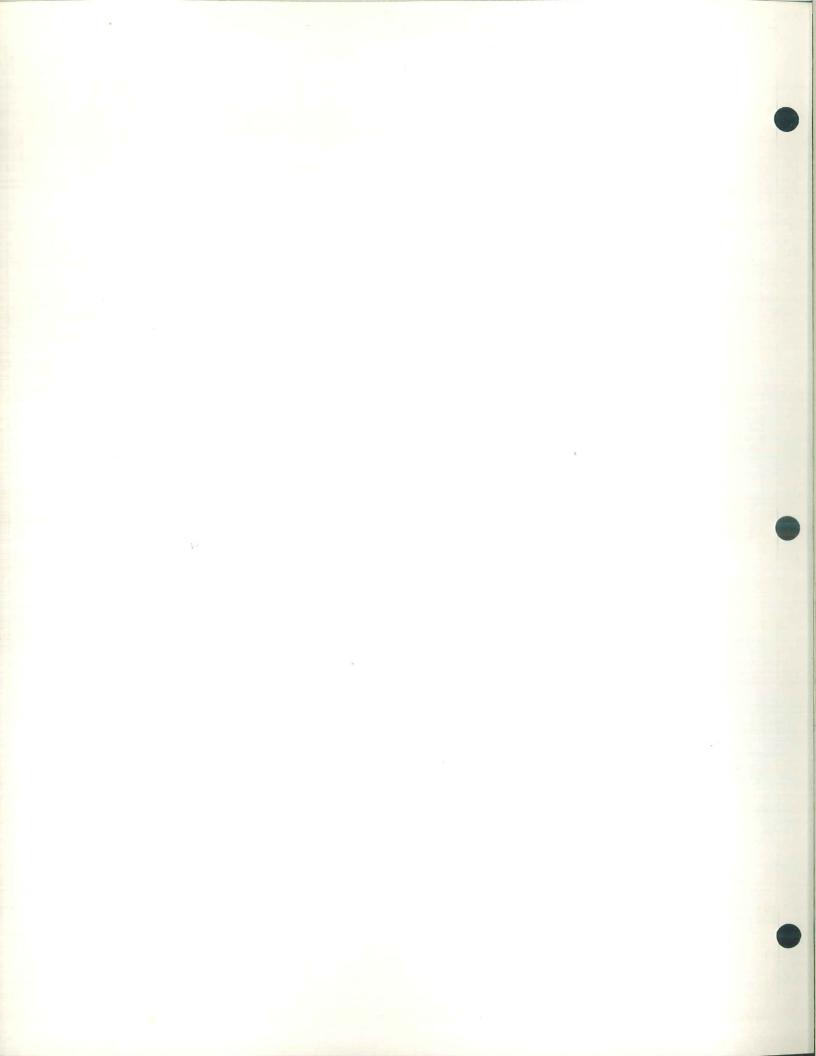
Chicago, Illinois 60650

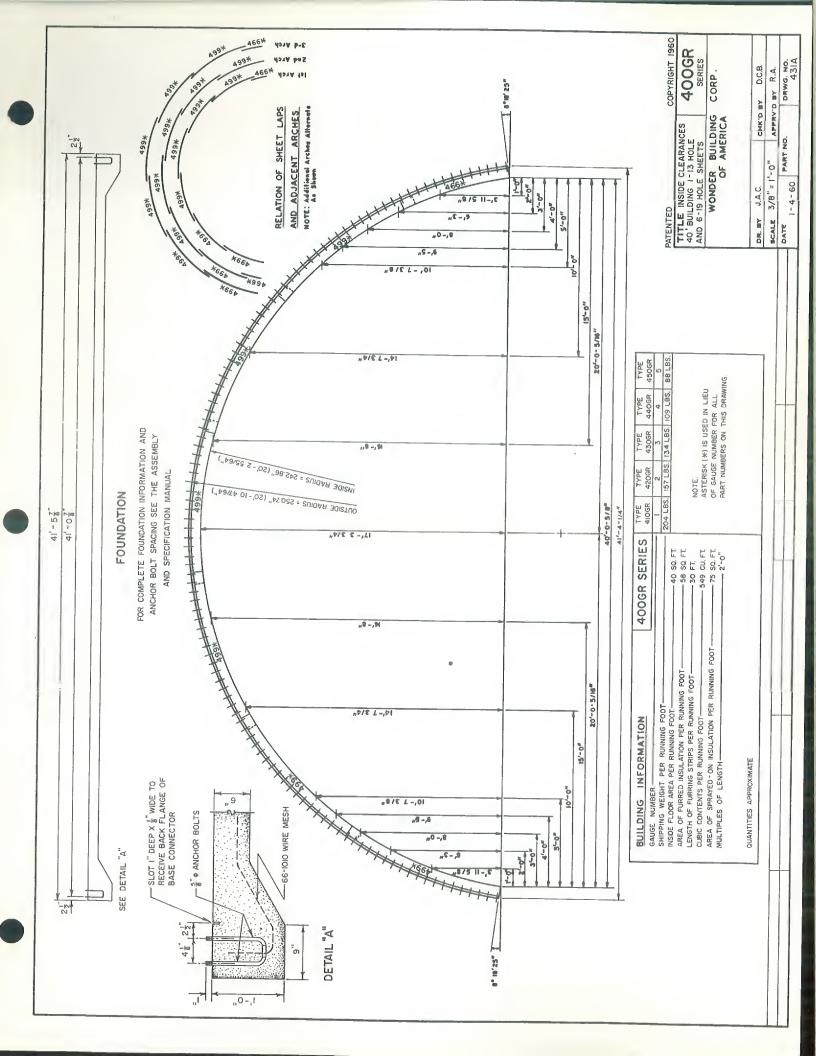




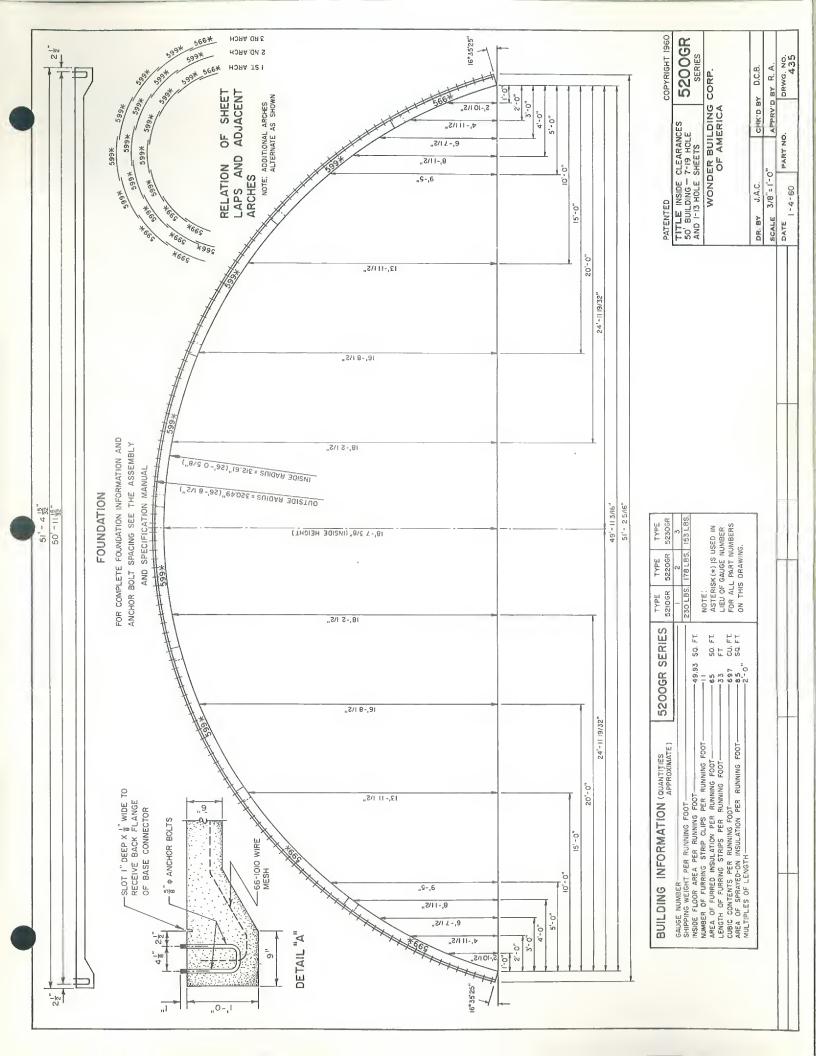




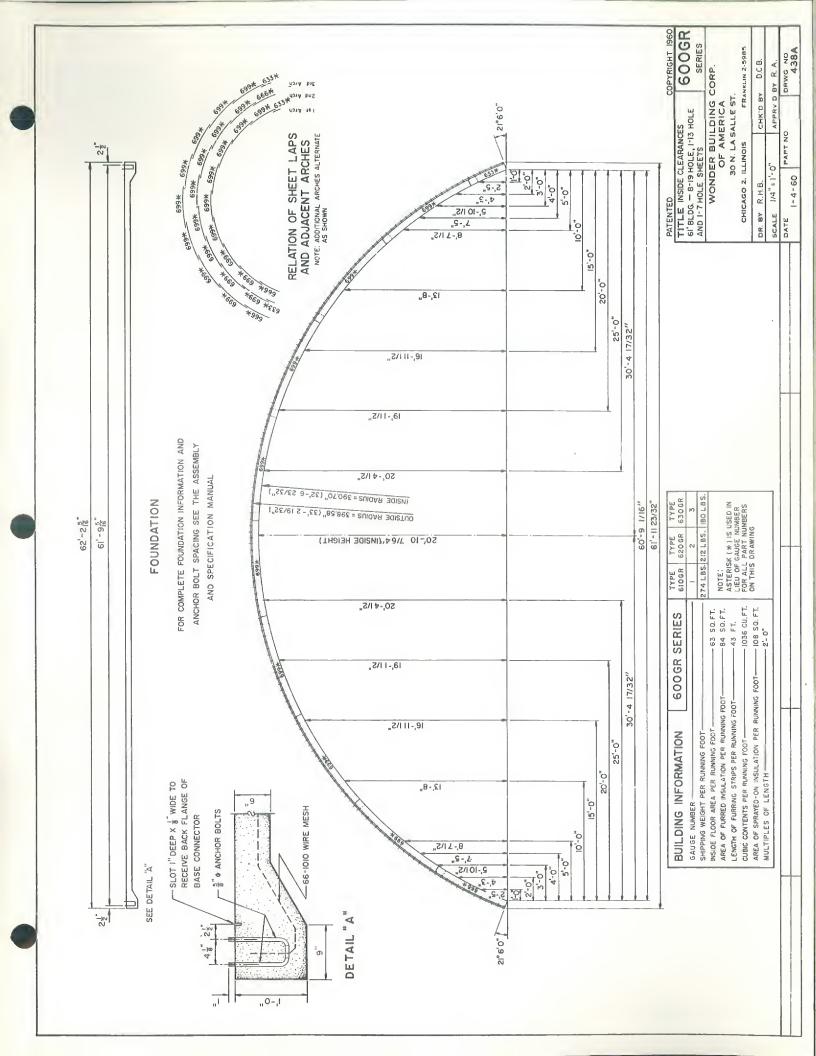




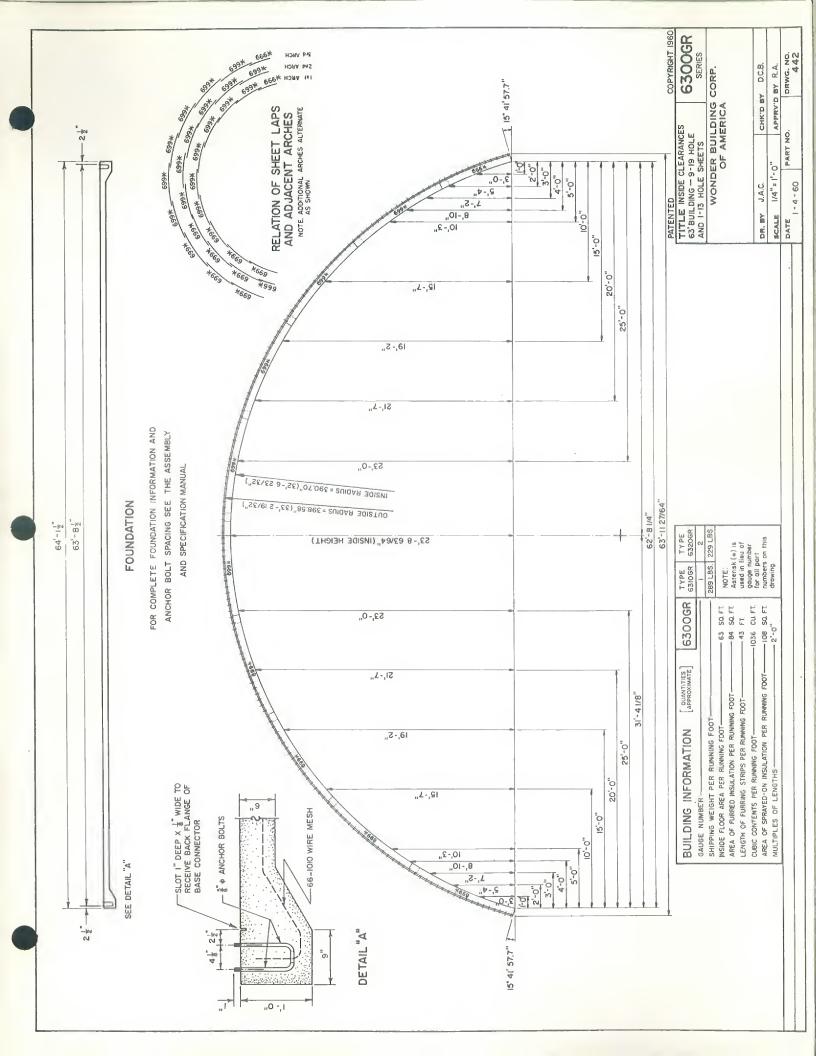


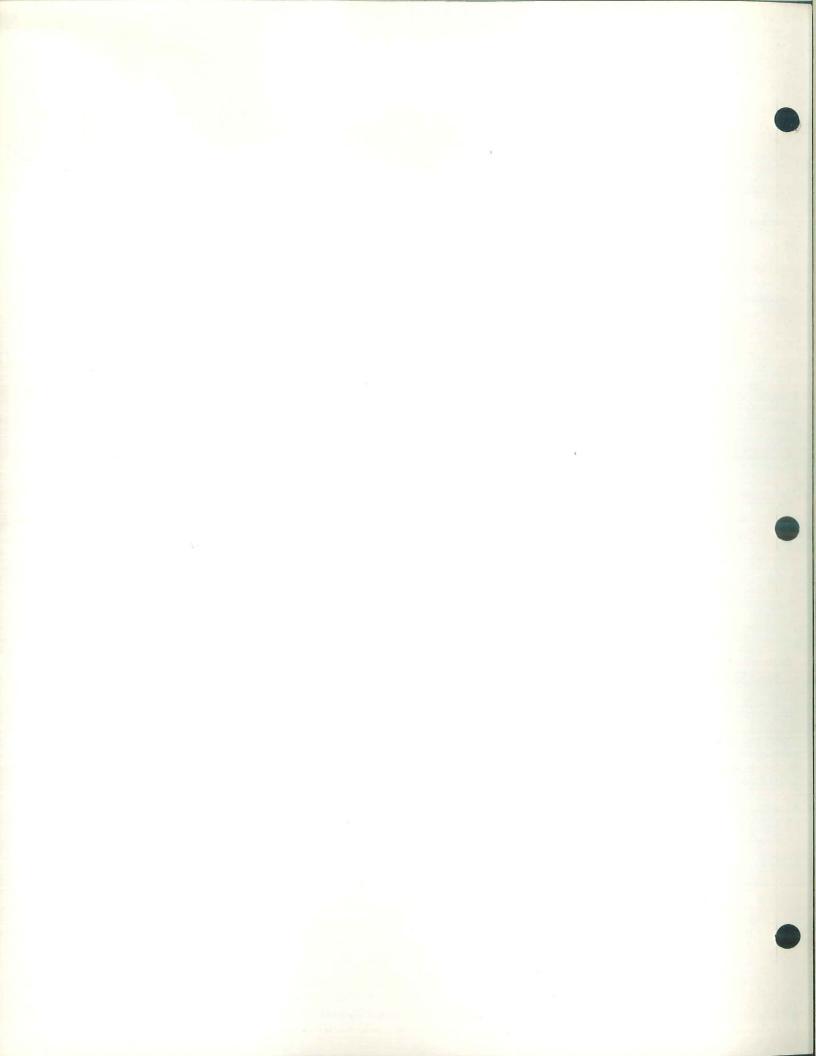


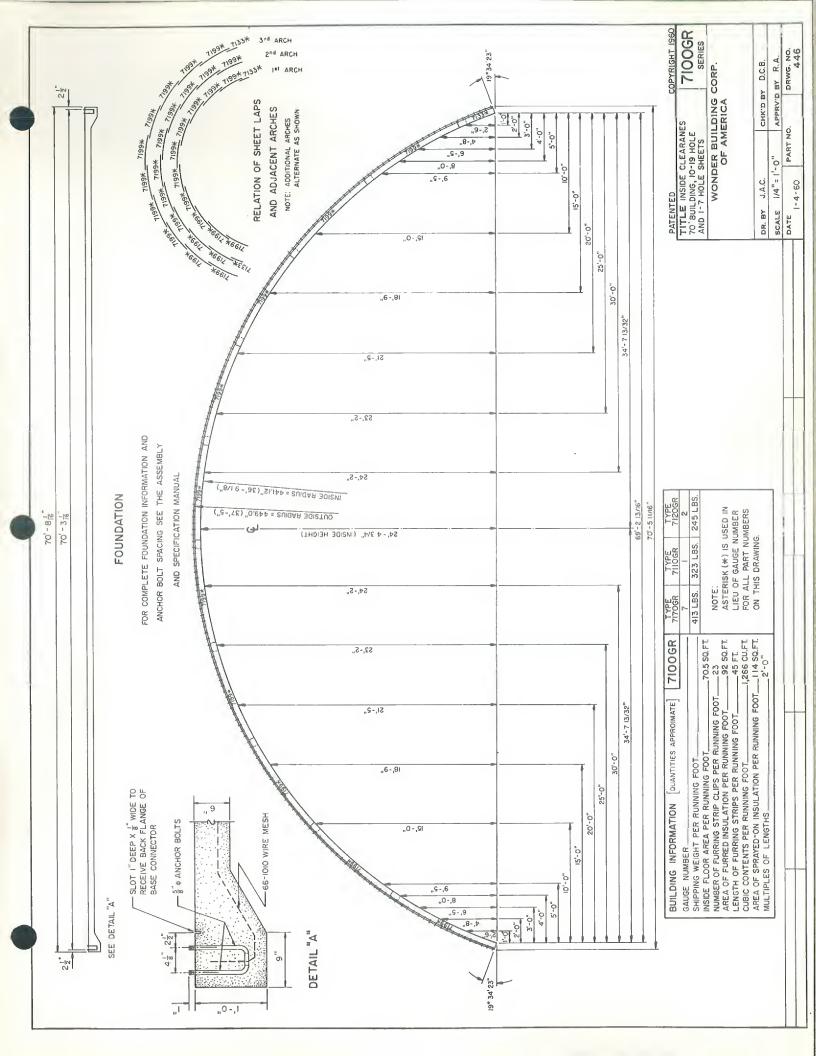


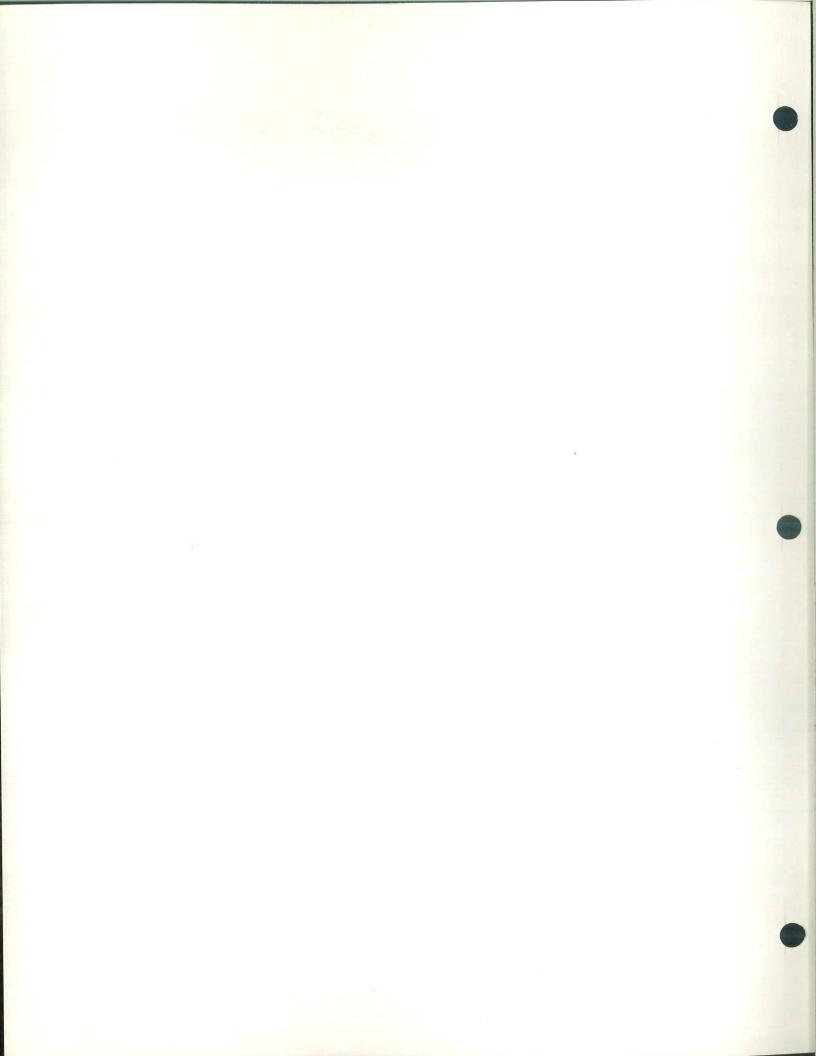


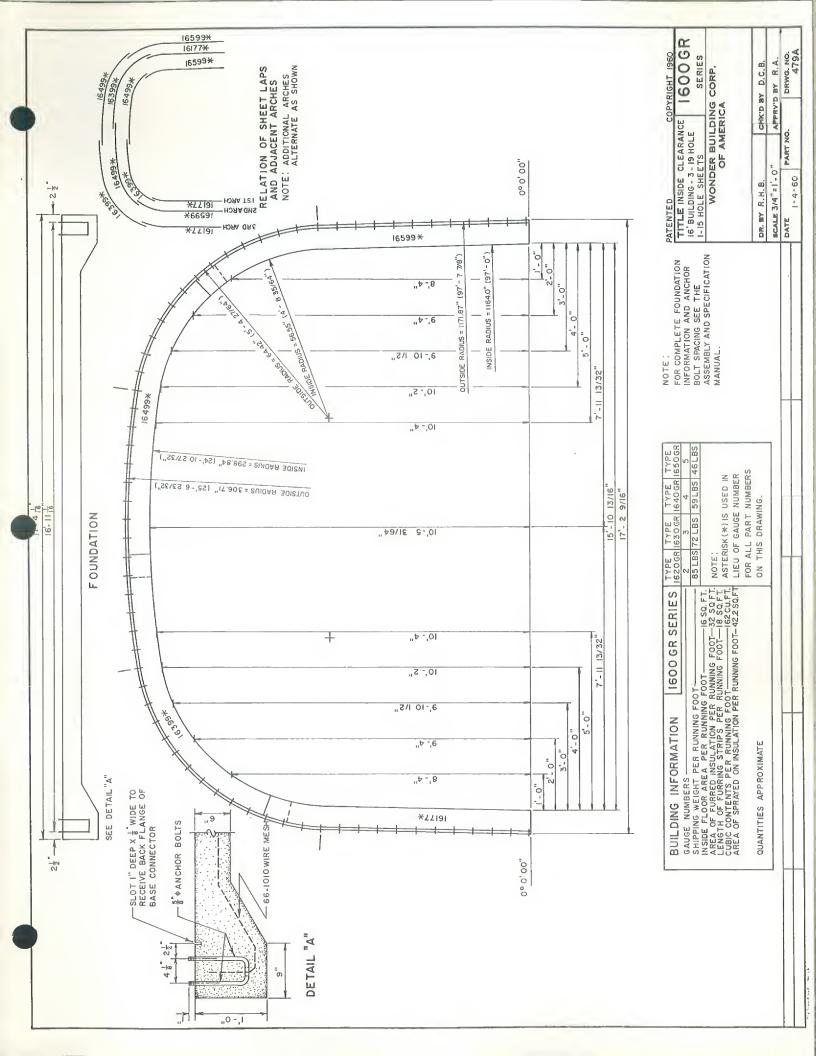


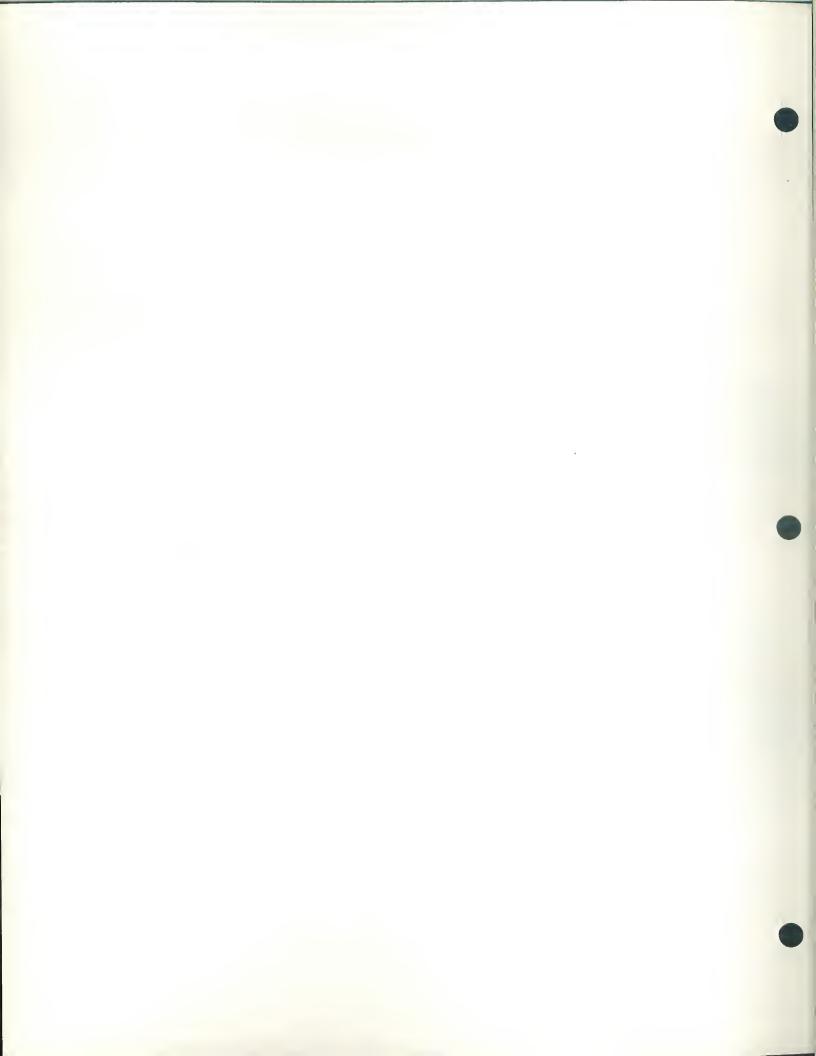


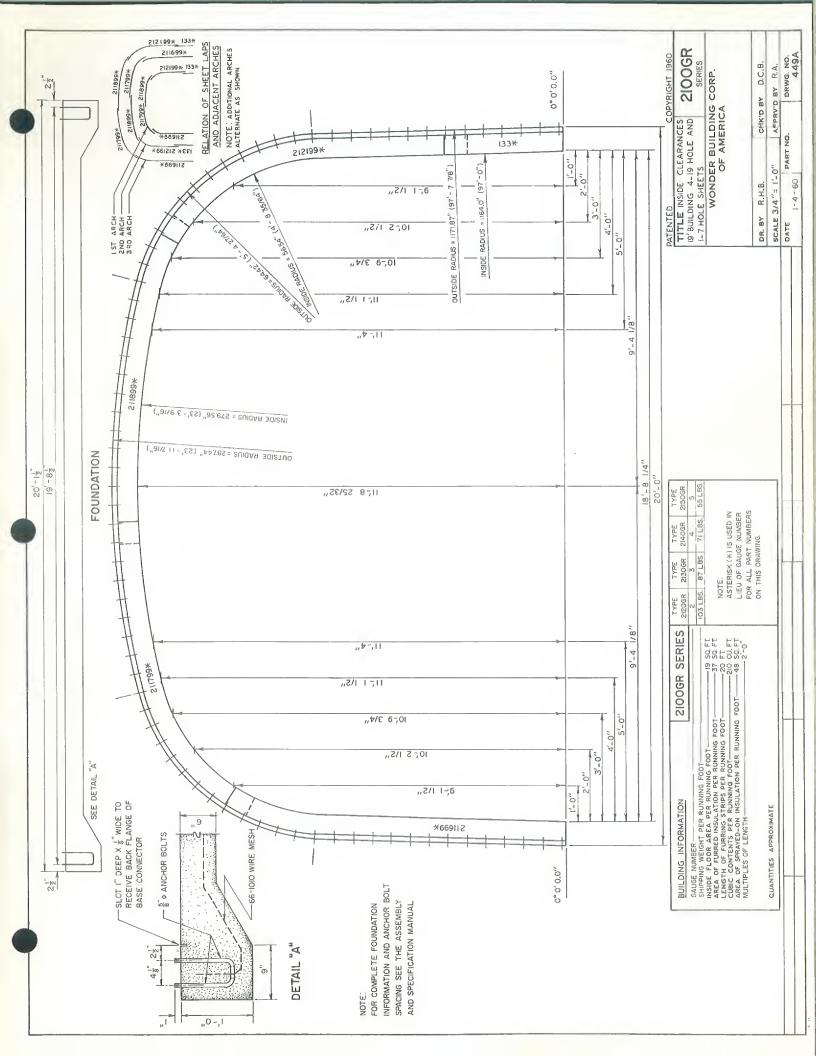




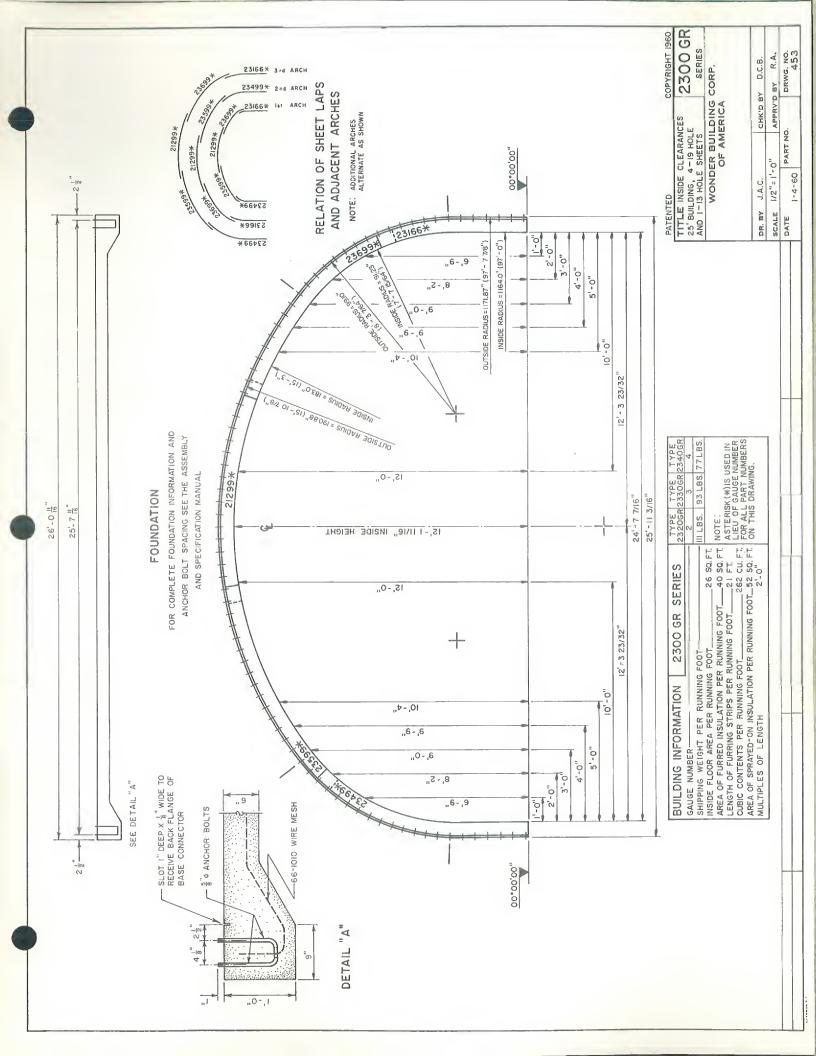


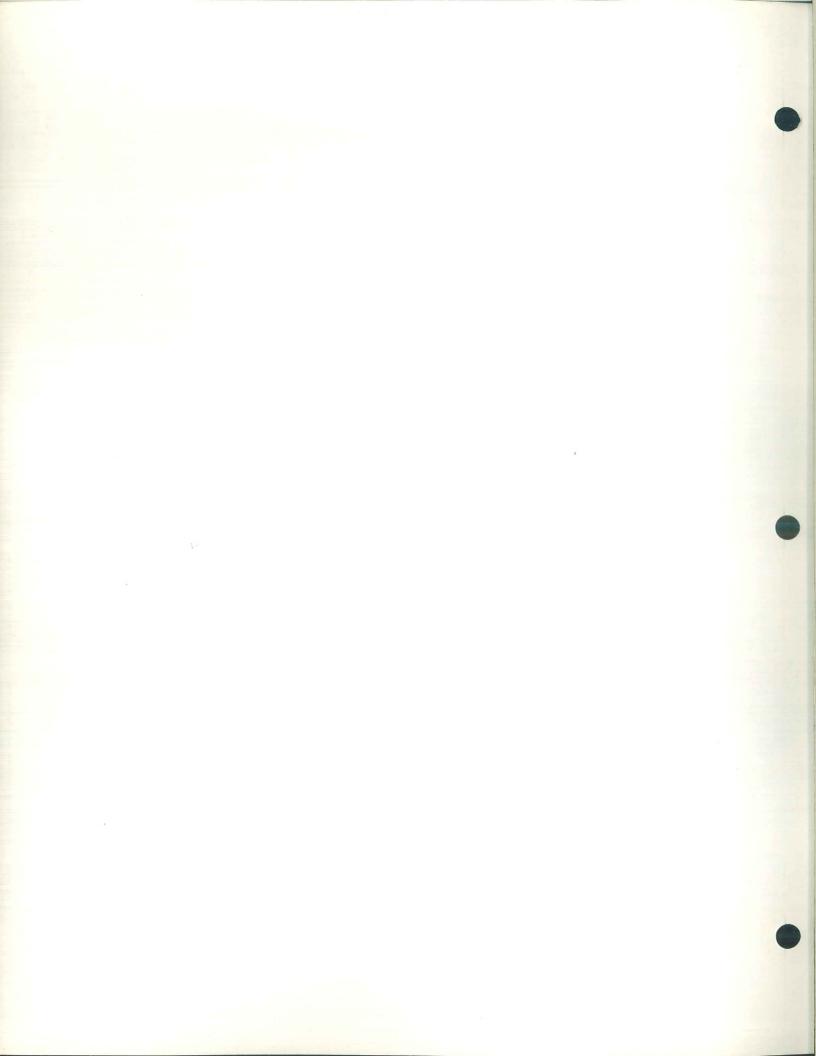


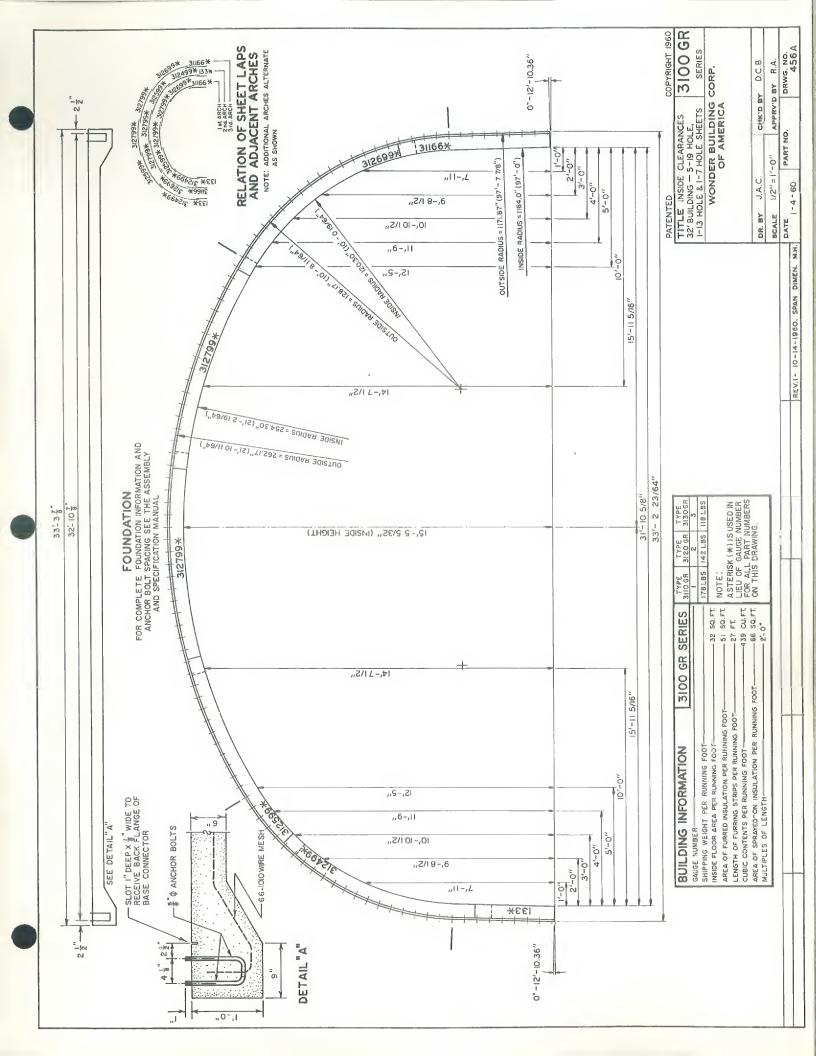


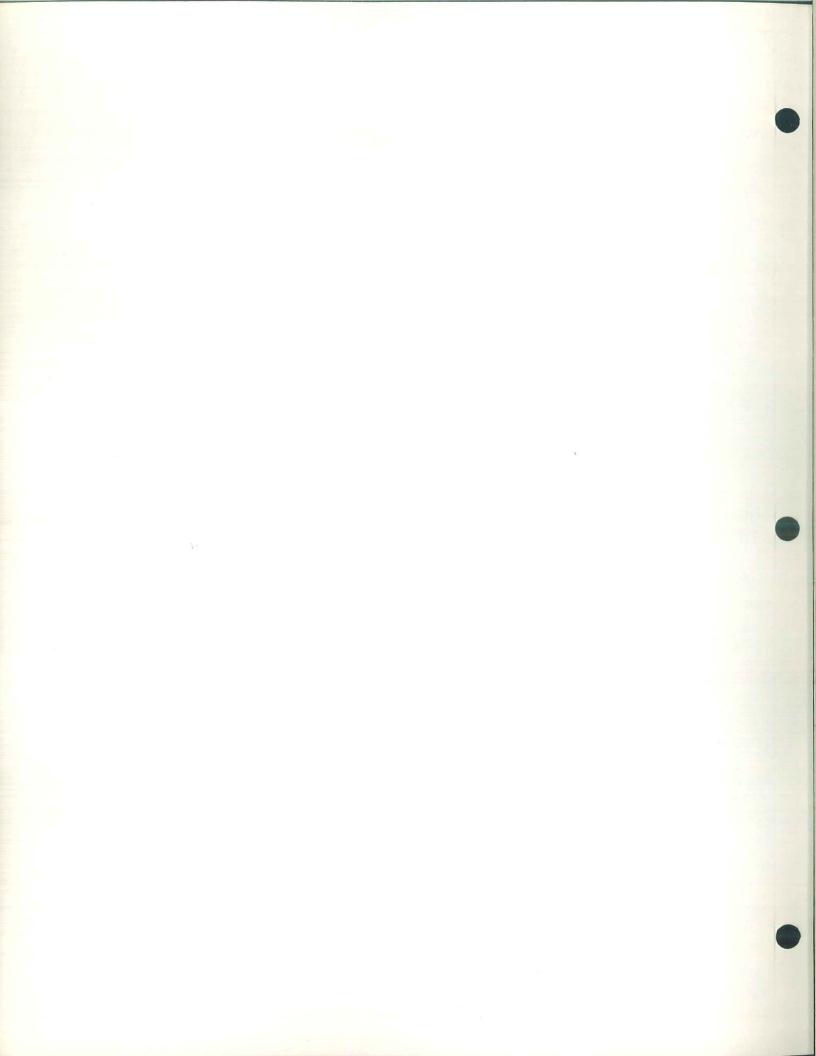


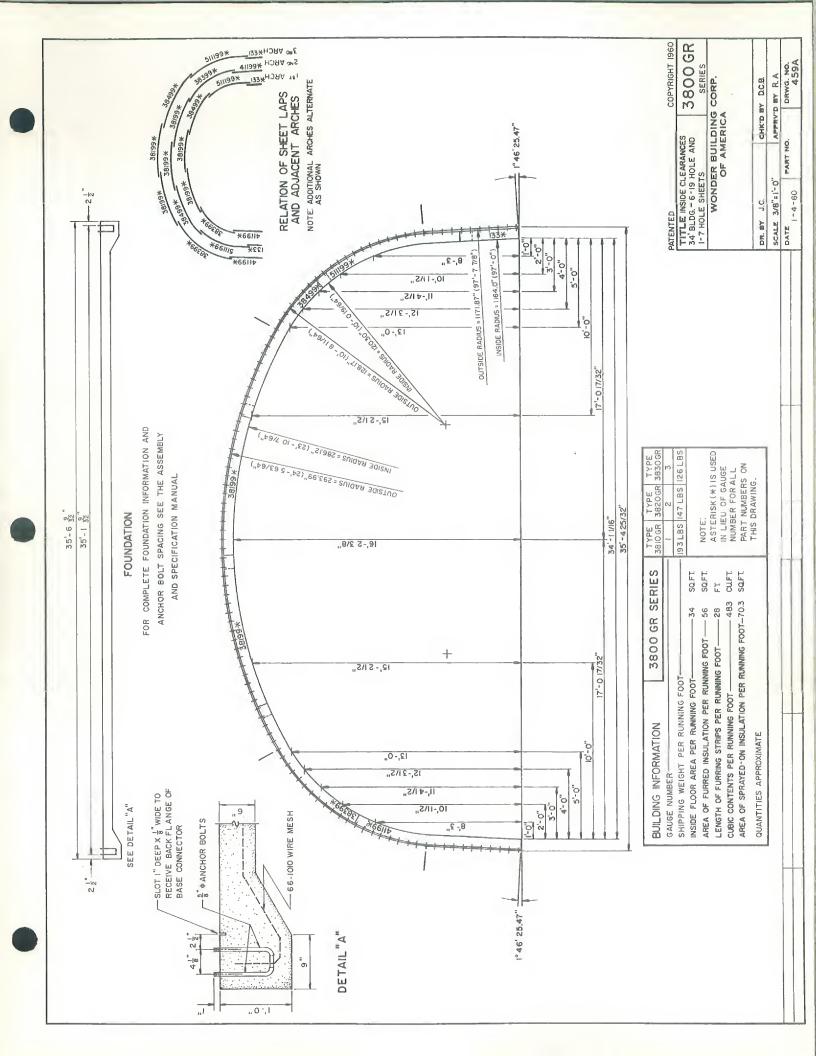




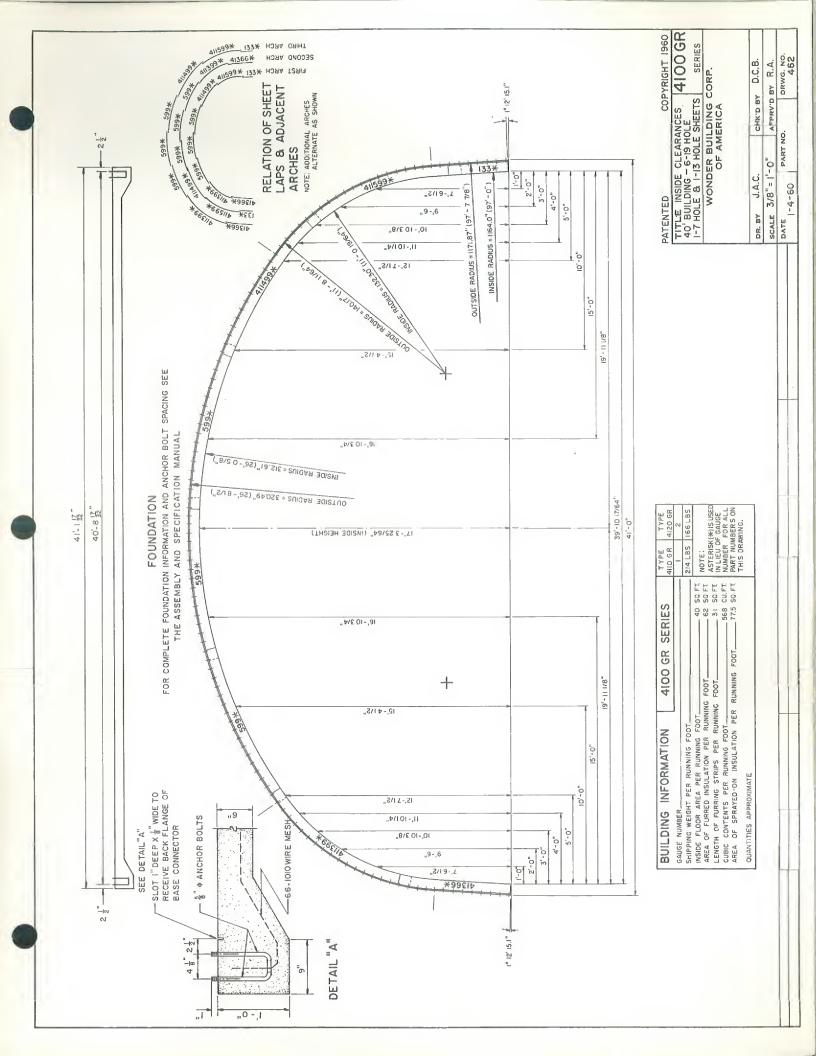


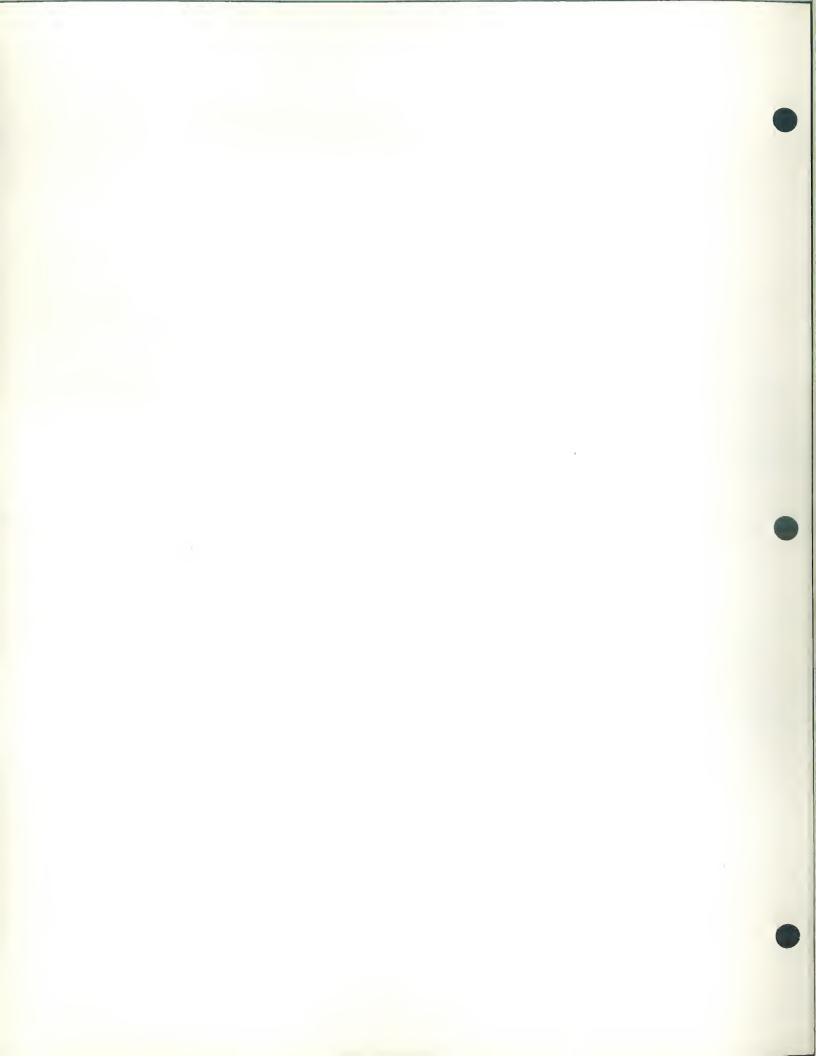


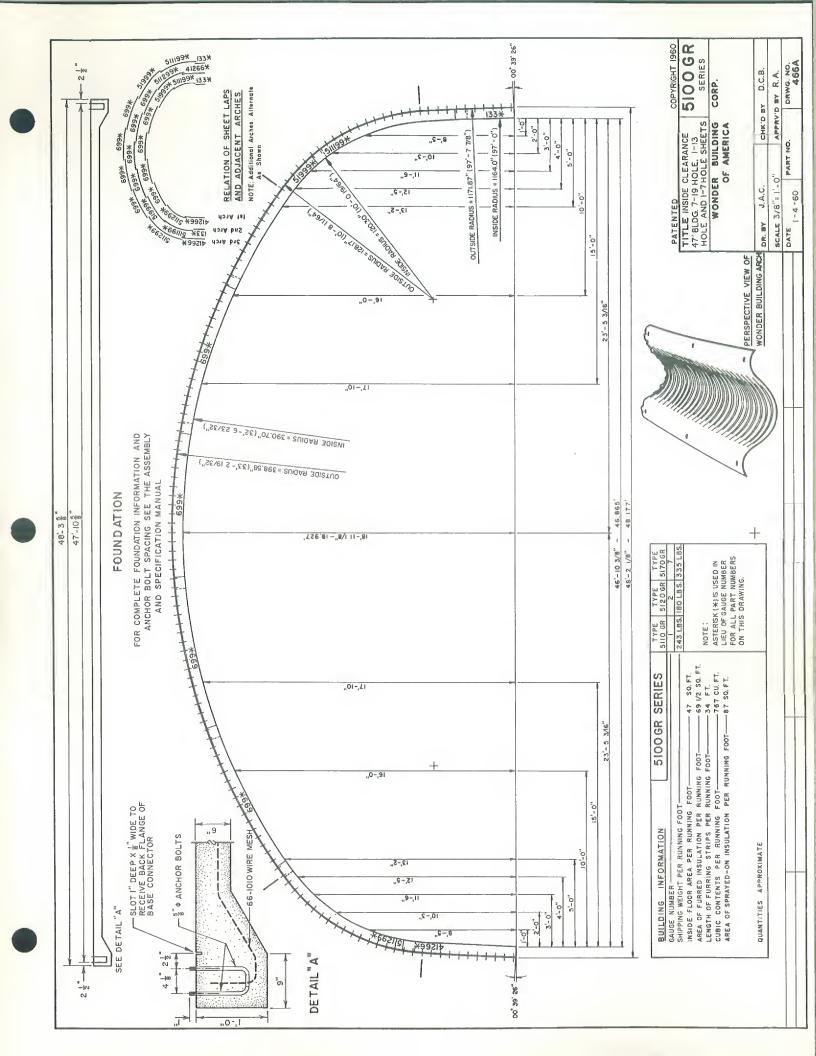


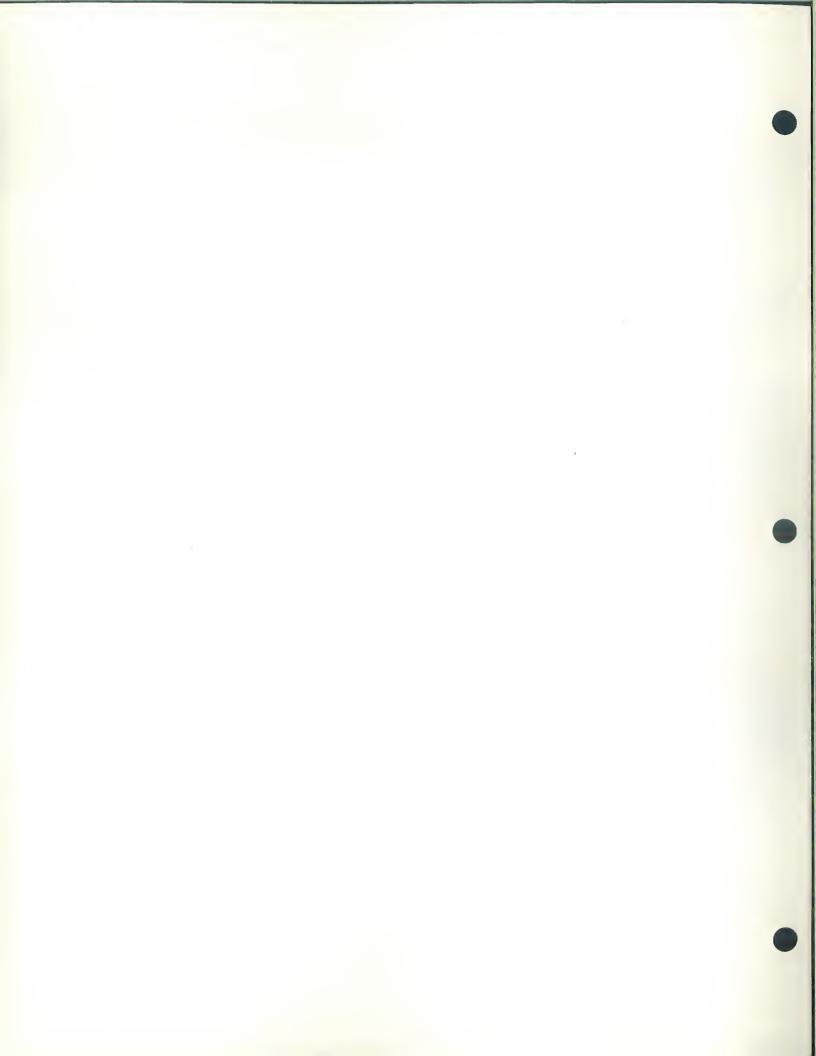


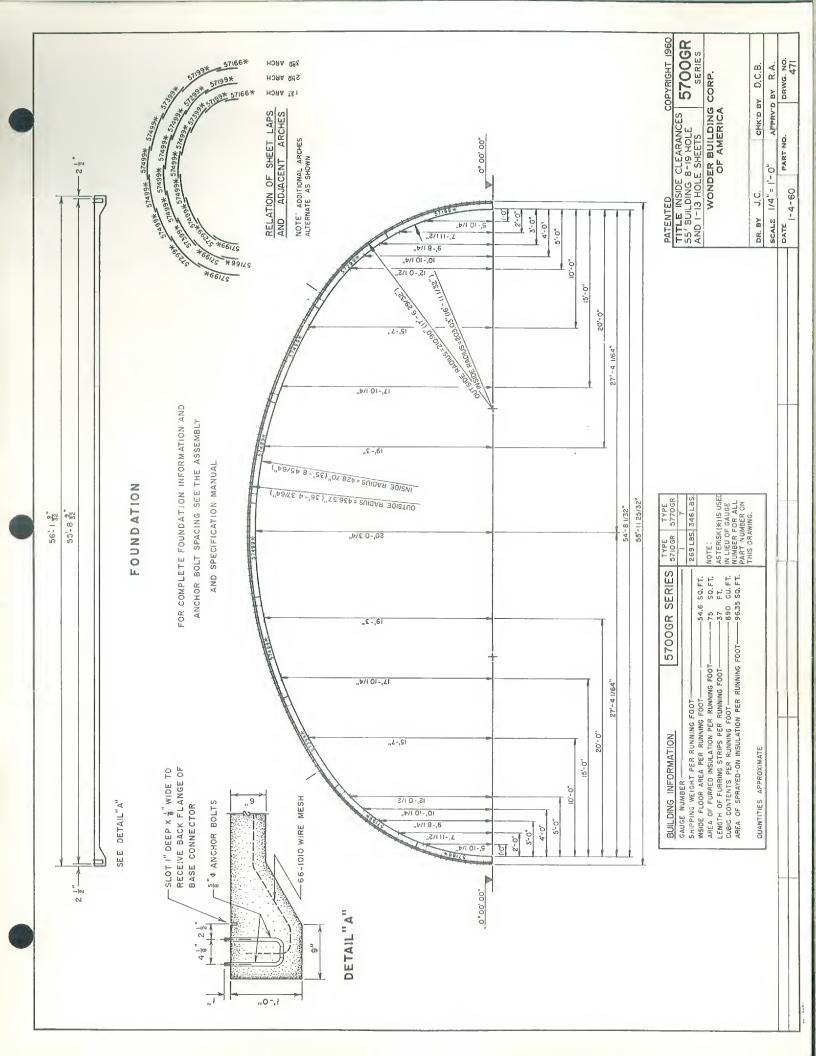


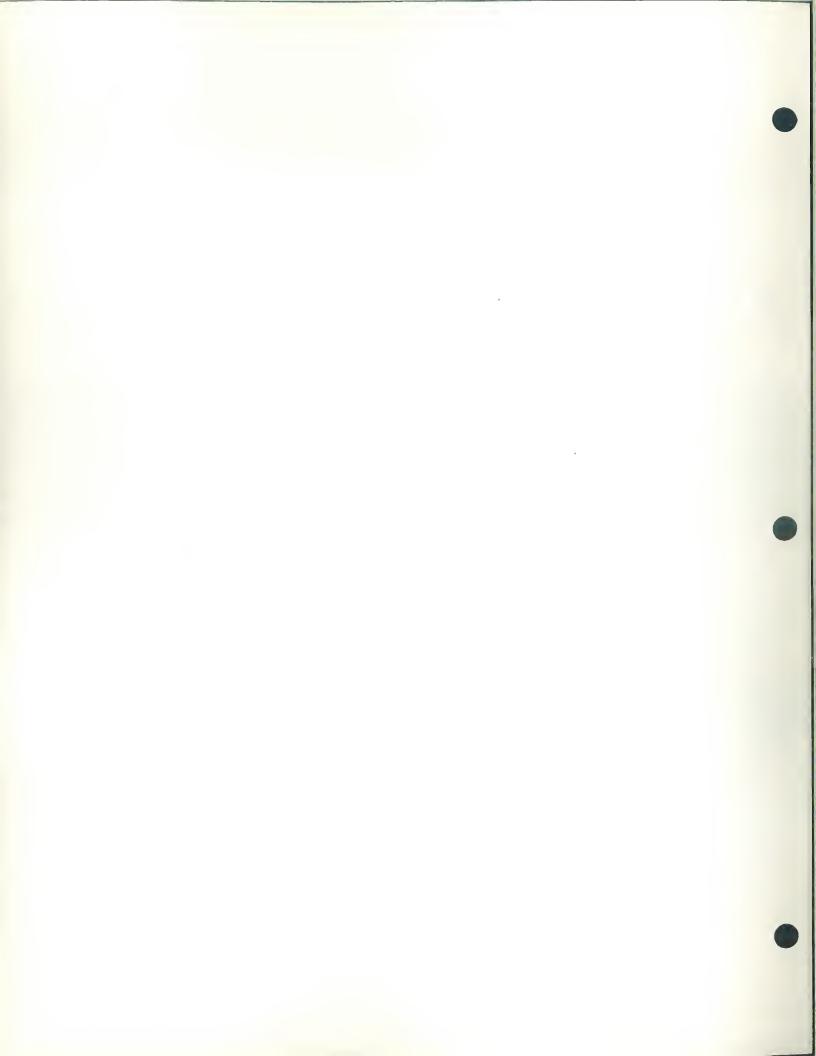


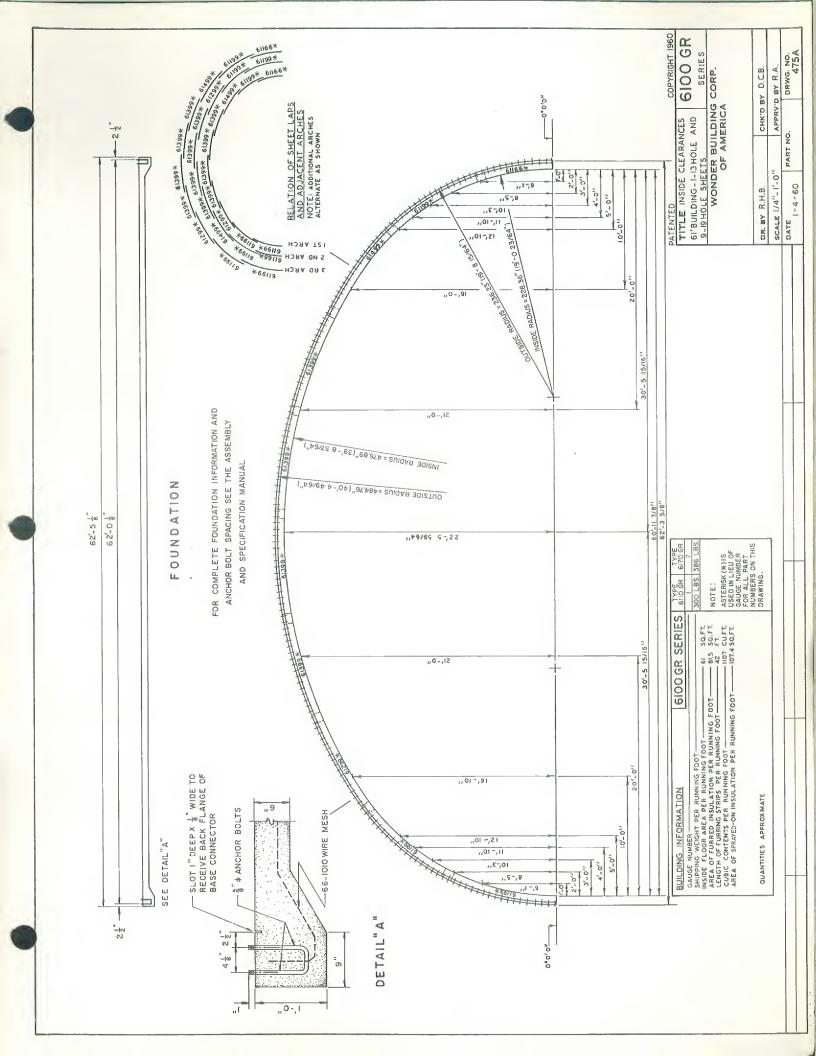


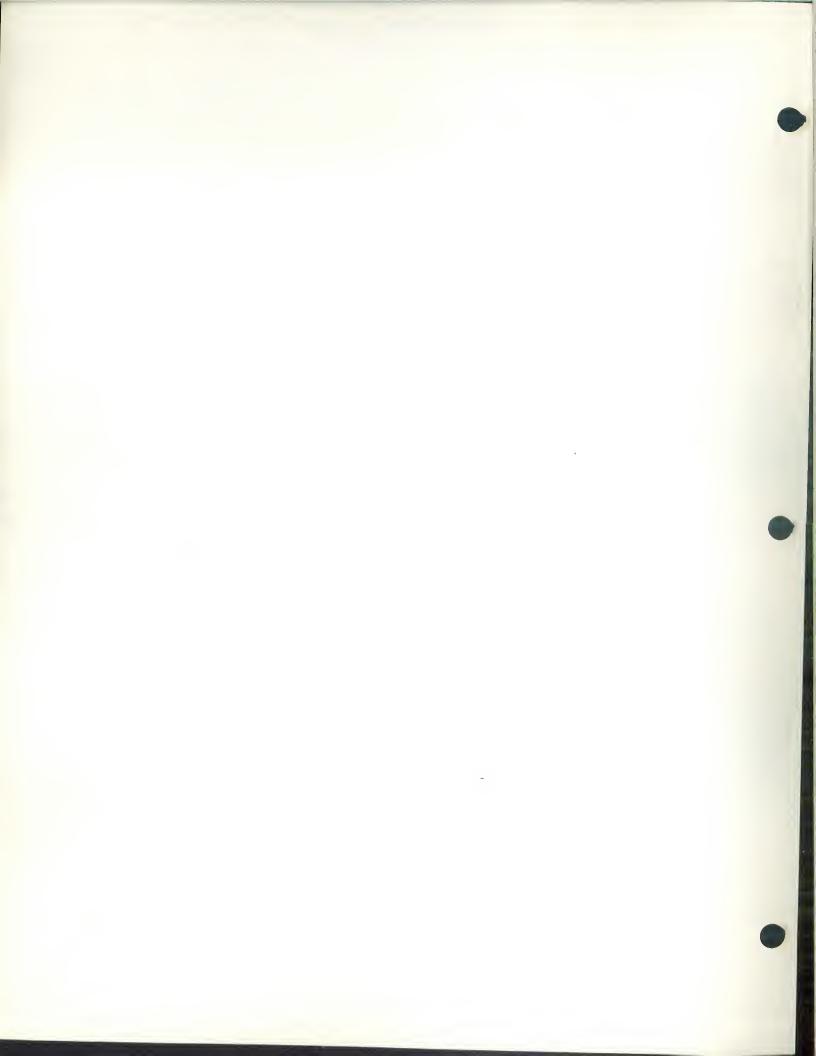












# GENERAL INFORMATION & ERECTION NOTES

# READ INSTRUCTIONS THROUGH COMPLETELY BEFORE STARTING ERECTION

#### **PERMITS**: **(4)**

WHEN BUILDING PERMITS ARE REQUIRED, THEY SHOULD BE OBTAINED PRIOR TO STARTING WORK.

#### MINIMUM TOOLS REQUIRED: **@**

- I. 9/16" WRENCH OR SOCKET (8 PT.) AND A 1/2" BOX WRENCH. (A POWER OR IMPACT WRENCH WILL SPEED ERECTION IF AVAILABLE.)
- CARTRIDGE TYPE CAULKING GUN.
- DRIFT PINS (MINIMUM OF THREE 3/16" X 9" DRIFT PUNCHES PER WORKMAN.)
- SCREW DRIVER.
- EXTENSION CORD IF POWER WRENCH IS USED.
- 12" CRESCENT WRENCH.
- 8. MEASURING TAPE.

#### FOUNDATION: 0

- THE FOUNDATION MUST BE LEVEL, SQUARE AND ACCURATE FOR PROPER ERECTION OF BUILDING.
  - FOUNDATION DETAILS SHOWN IN FIGURE NUMBER I SHOULD BE CHECKED WITH LOCAL SOIL CONDITIONS AND CODE REQUIREMENTS.

#### RECEIVING BUILDING MATERIALS:

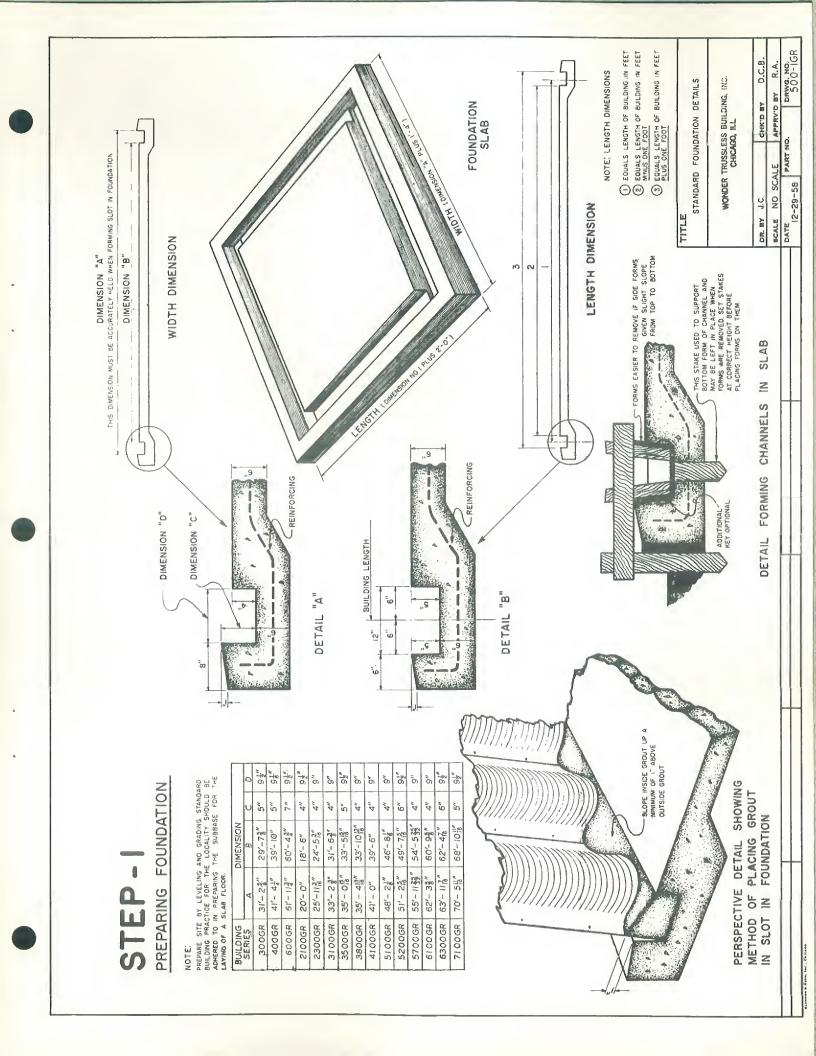
- 1. USE CARE IN UNLOADING SO AS NOT TO DAMAGE BUILDING MATERIAL.
- CHECK PACKING LIST FOR ANY SHORTAGE AND CHECK FOR ANY DAMAGED PARTS.
- PLACE BUILDING MATERIAL AT SPACED INTERVALS ON EACH SIDE OF FOUNDATION FOR MOST CONVENIENT USE IN ERECTION. PROTECT NESTED STEEL PANELS FROM PROLONGED DAMPNESS.

#### (LI)

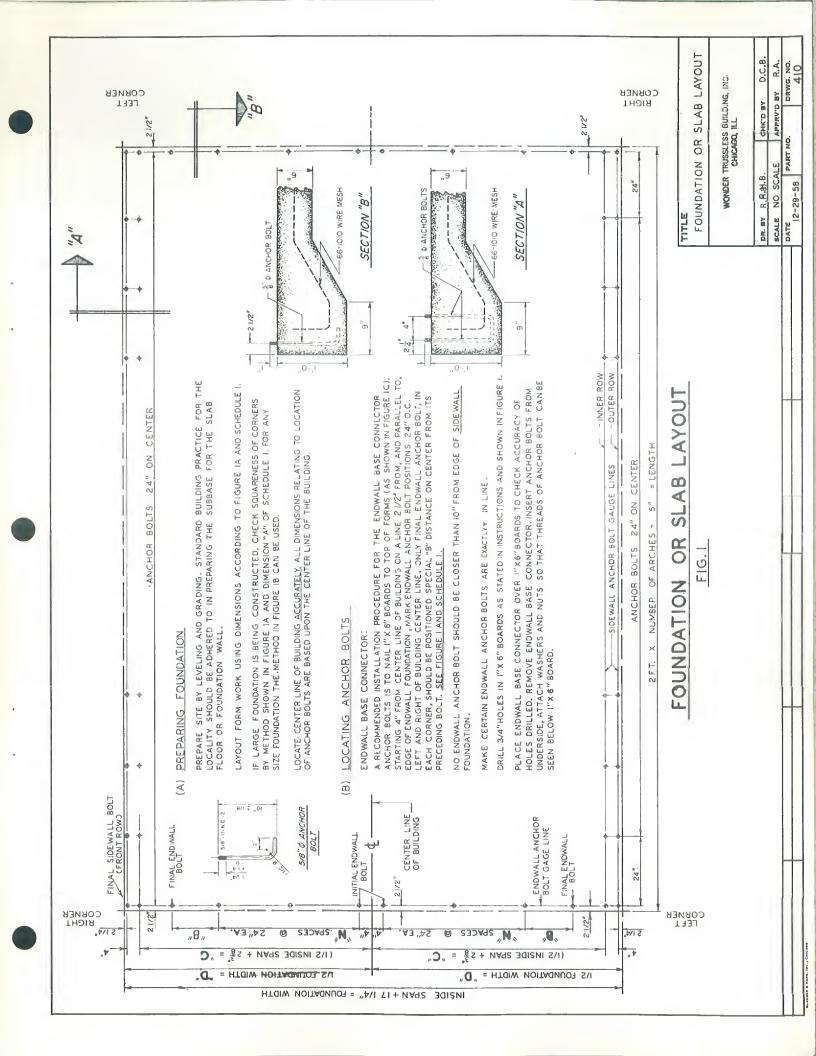
- SCAFFOLDING MUST SUPPORT ARCHES AT POINTS SHOWN ON SCAFFOLDING DIAGRAM. SCAFFOLDING MUST BE PORTABLE.
- USE SUFFICIENT DECKING SO THAT ALL BOLTS ARE WITHIN EASY REACH.

JILDING DRMATION	BUILD:NG, INC.	CHK¹D BY D.C.B.	APPRV'D BY R.A.	DRWG. NO.	4004
GENERAL BUILDING ASSEMBLY INFORMATION	WONDER TRUSSLESS BUILDING, INC. CHICAGO, ILL	W.HKB.	SCALE NO SCALE	PART NO.	02-00-01
TITLE	-	DR. BY	SCALE	DATE	-
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NOTE: ANCHOR BOLT POSITIONS CAN BE MARKED AND DRILLED ON 1" X6" BOARD PRIOR, TO NAILING ON FORMWORK, PROVIDING ACCURATE PLACEMENT WITH RESPECT TO CENTER LINE OF BUILDING AND ANCHOR BOLT GAUGE LINES IS STRICTLY ADHERED TO.

### SIDEWALL BASE CONNECTOR:

A RECOMMENDED INSTALLATION PROCEDURE FOR THE SIDEWALL BASE CONNECTOR ANCHOR BOLTS IS TO NALL XIOW BOARD TO TO DO FOR FORMS (AS SHOWN IN FIGURE 1D). STARTING IN LEFT CORNER OF BUILD-ING AND ON ENDWALL GAUGE LINE, MARK INNER ROW AND OUTER ROW OF SIDEWALL ANCHOR BOLT GAUGE LINE. INNER AND OUTER ROW OF SIDEWALL BANCHOR BOLTS 24 OC. FROM CONTINUE PROCEDURE ALONG SIDEWALL TO OPPOSITE END WITH FINAL BOLTS. ANCHOR BOLT GAPAT. ON OPPOSITE SIDEWALL PAVE SIMILAR LOCATIONS. <u>SEE FIGURE!</u> CHECK POSITIONS OF ANCHOR BOLTS CENTER LINE OF BUILDING USING DIMENSION "C" FROM SCHEDULE I AS SHOWN FIGURE!

DRILL 3/4" HOLES IN I"X 10" BOARDS AS STATED IN INSTRUCTIONS AND SHOWN IN FIGURE 1.

PLACE SIDEWALL BASE CONNECTOR OVER 1"X10"BOARDS TO CHECK ACCURACY OF HOLES DRILLED. REMOVE SIDEWALL BASE CONNECTOR. INSERT ANCHOR FROM UNDERSIDE, ATTACH WASHERS AND NUTS SO THAT THREADS OF ANCHOR BOLT CAN BE SEEN BELOW 1"X10" BOARD.

SIDEWALL ANCHOR BOLT GAUGE LINES MUST BE STRAIGHT AND PARALLEL TO EACH OTHER AND PERPENDICULAR TO EDWALL ANCHOR BOLT GAUGE LINES AT INTERVALS ALDNG LENGTH OF FOUNDATION BY USING DIMENSION "C", A CHECK ON SQUARENESS OF SIDEWALL AND ENDWALL AND END

NOTE: ANCHOR BOLT POSITIONS CAN BE MARKED AND DRILLED ON 1"X 10" BOARD PRIOR TO NAILING ON FORMWORK PROVIDED ACCURATE PLACEMENT WITH RESPECT TO CENTER LINE OF BUILDING AND ANCHOR BOLT GAUGE LINES IS ADHERED TO.

THE ABOVE MENTIONED PROCEDURES, VARIATION OF THESE PROCEDURES, OR ANY OTHER METHOD THAT GIVES ACCURATE PLACEMENT OF ANCHOR BOLTS MAY BE USED.

POUR THE FOUNDATION, BEFORE CONCRETE SETS CHECK ALL ANCHOR BOLTS FOR CORRECT ALIGNMENT AND HEIGHT.

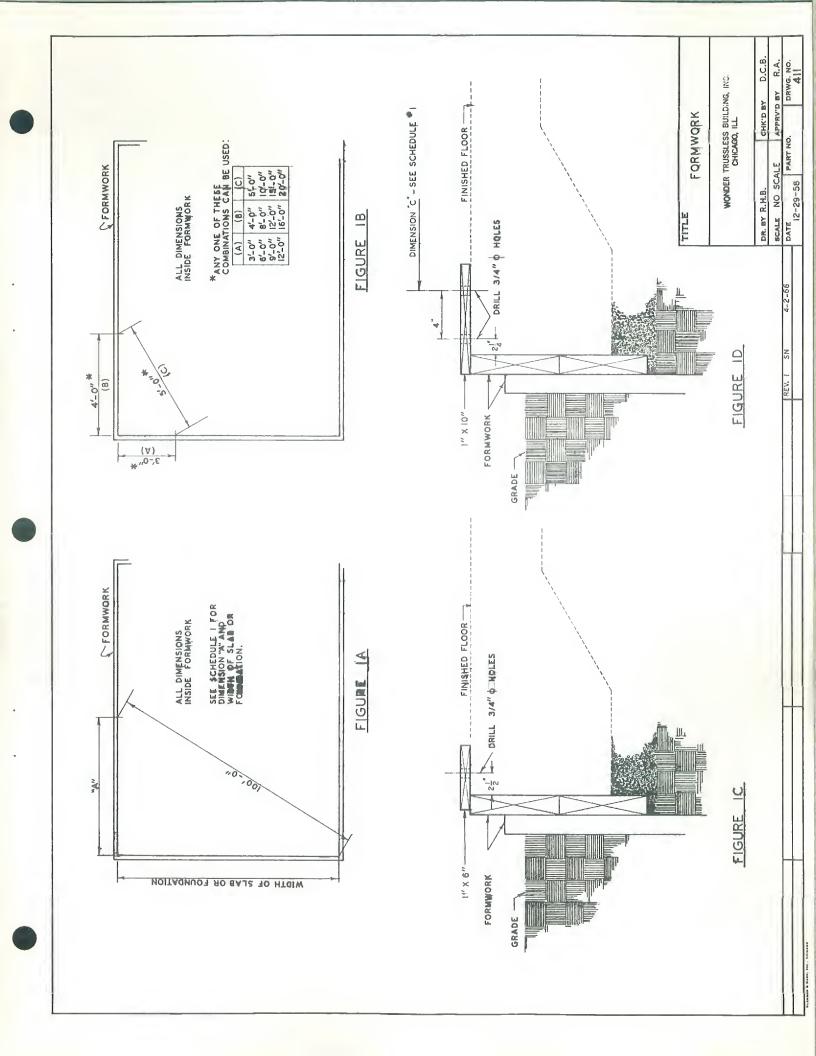
THE METHODS DESCRIBED IN THIS MANUAL ARE BASIC AND MAY BE ADAPTED TO PERIMETER FOOTINGS AND FOUNDATION WALLS WITH A MAXIMUM THICKNESS OF 9 1/2".

## -SCHEDULE I-

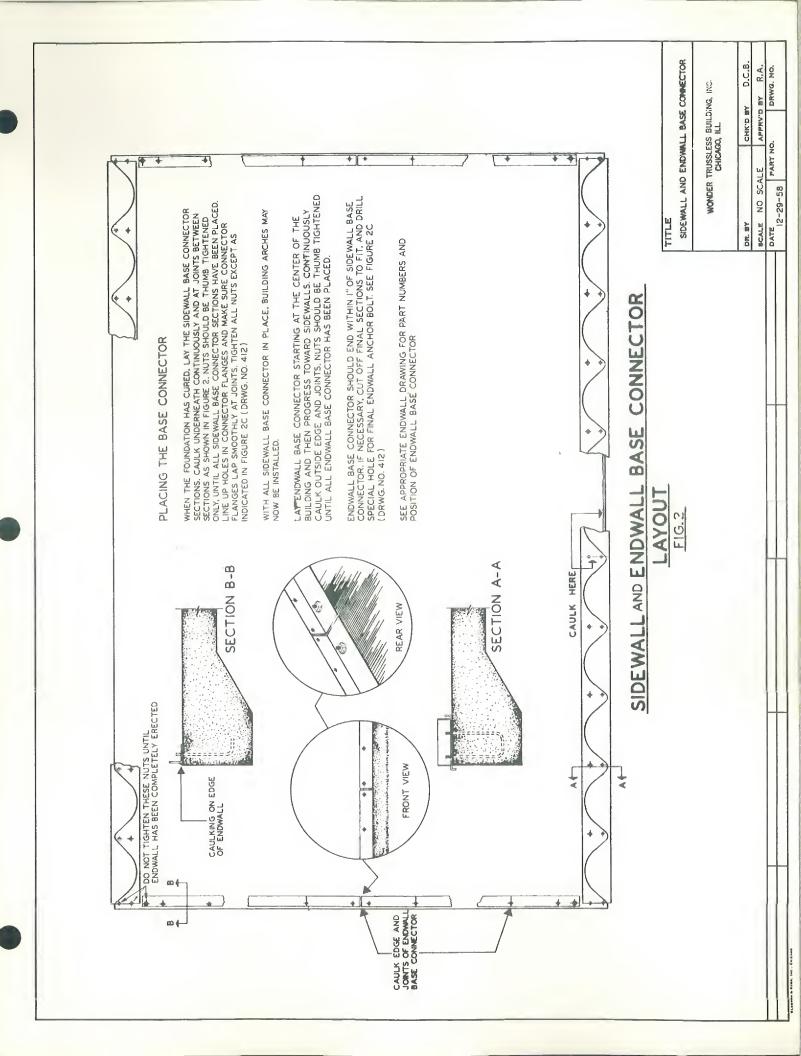
																		 		_			
Z	7	6	14	4	2	7	8	8	6	=	12	13	14	15	21	21	Ю						
"O"	15'-8 <u>1</u> 8	20'-8 5"	31'-132"	10'-0컄"	13'-0\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	16'-7!5"	17'-732"	17'-95"	20'-635"	24'-113"	25'-84"	28'-0활	31'-28"	32'-03"	35'-412"	45'- 132	8'-81"						
= - -	15'- 18.	20'-2'11	30'-632.	9'-62.	12'-632"	16'- 1 16"	17'-1 32"	17'-232	20'-1½	23'-7 <sup>9</sup>	25'- 1 31"	27'-6 <u>25</u>	30'-8 <u>5</u>	31'-62"	34'-925"	44'-7 13"	8'-1 35"						
"B"	5 12	18 5.	22 17"	10 - ".	2 1 23 "	17 5	4 52"	-k2	-160	<u>ड</u> ।।	5 32	101	23 15 "	10 <sup>#</sup> "	-0	23 12	17 13 "						
"A"	94'-1132	90'-1137"	78'-316"	97'-11 32		94'-313"	93'-732	93'-53"	91,-119	87'-632"	85'-98	82'-95	78'- 17"	76'-835"	10-9"	43'-03"	98'- 5년3"						
FOUNDATION	31-44"	41'-57"	62'-25"	20'- 12"	26'-011"	33'-37"	35'-28"	35 - 6 32	41'-132	48'-38"	51'-435"	56'- 132"	62'-5 <sup>1</sup> "	64'-12"	70'-816"	90'-35"	17-46						
GR SERIES	300GR	400GR	600GR	ZIOOGR	2300GR	3100GR	3500GR	3800GR	4100GR	5100GR	5200GR	5700GR	6100GR	6300GR	71 00GR	8900GR	1600GR						

JLE I	CHICAGO, ILL.	CHK'D BY	APPRV'D BY
SCHEDULE I	WONDER TRUSSLESS BUILDING, IS CHICAGO, ILL	BY R.H.B	LE NO SCALE
4		'n	3

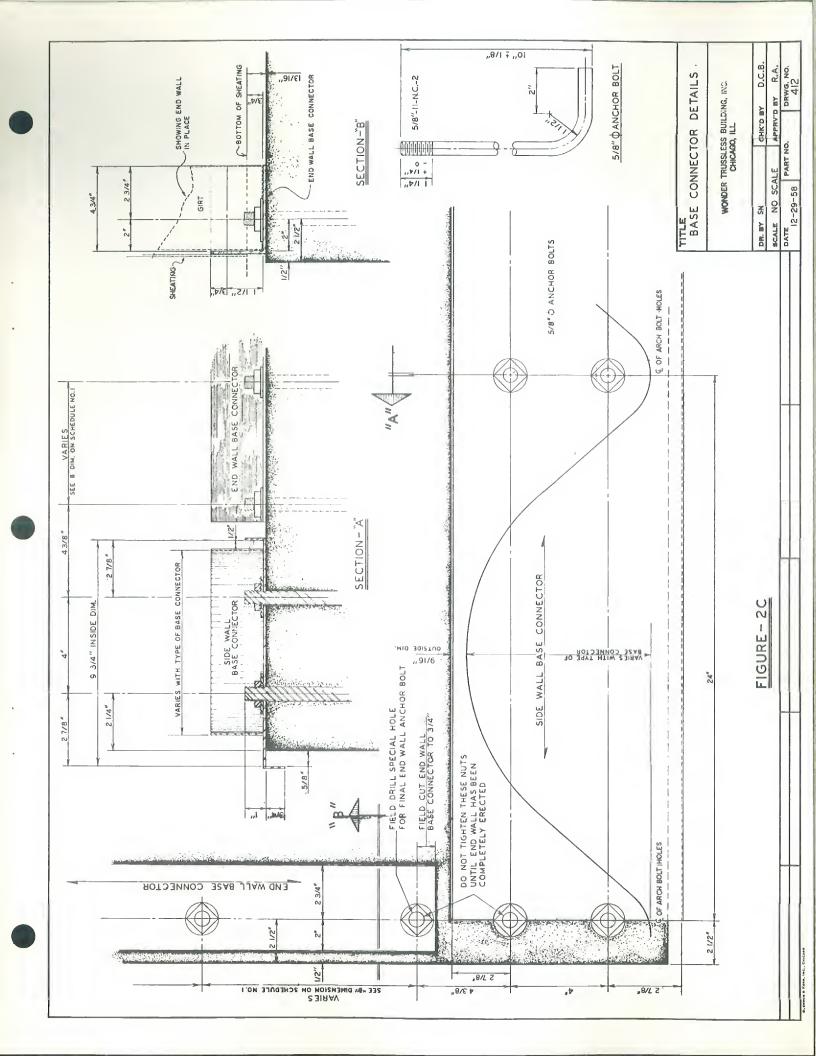












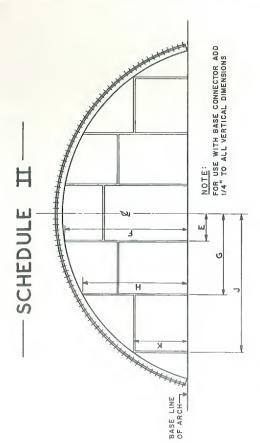


## PREPARING THE SCAFFOLDING

THE ARCHES BEING ASSEMBLED MUST BE SUPPORTED AT THE POINTS INDICATED IN SCHEDULE  $\boldsymbol{\pi}$  .

SUFFICIENT DECKING SHOULD BE USED SO THAT ALL BOLTS ARE WITHIN EASY REACH.

IT IS RECOMMENDED THAT STEEL SCAFFOLDING BE USED, IF IT IS NOT AVAILABLE A MOVEABLE WOODEN SCAFFOLDING SUCH AS THE ONE ILLUSTRATED BELOW, CAN BE CONSTRUCTED FROM ANY TYPE OF LUMBER, PROVIDED IT IS STRONG ENOUGH TO SUPPORT THE BUILDING ARCHES AND WORKCREW.



			_	_	_	_	_											
¥	2,-연물	11'-25	1-10 용	9-6	<u></u> 01 – ,6	7'-98	9-6	10-14	11-75	10-11	9'-3 6	12'- 4"	12'- 3	10-97	8'-10용"			
٦	12'-6"	14'-6"	26'-0"	8,-0.	8-0,	15'-0"	12'-0"	15'- 0"	16'-0"	21'- 0"	20-0"	22'- 0"	26'- 0"	26'- 0"	30'- 0"			
Ţ	13'-64"	16'-27"	16'-7 !!	11-67	11'-74	14-9 5	14'-214"	15'-8"	16-6-	i6'-25	15'-8 3"	17-11 7	6   - 6	, 항 9 - 6 l	18"-5 4			_
ŋ	4'+6"	9 -,9	16'-0"	3'-0"	4'-0"	2-0"	4'-0"	5'-0"	e'- o"	13'- 0"	15'-0"	12'-0"	16'-0"	16'- 0"	20'- 0"			
L			20-52							18,-64	18'-7 5	# POI-61	22'-2 #	23-4 3"	23-6 3			
Ш			2,-0,,							2,-0	4'-0"	4'-0"	5,-0"	2'-0"	8'-0"			
SERIES	SOOGR	400GR	600GR	2100GR	2300GR	3100GR	3500GR	3800GR	4100GR	5100GR	5200GR	5700GR	6100GR	6300GR	7100GR			
	AENDED MINIMUM											=7				<b>X</b>	The state of the s	

NOTE:

A RECOMMEI WIDTH FOR S IS 8'-0" B'-0" MINIMUM State of the state V/64,.. 

THE DIMENSIONS SHOWN IN SCHEDULE THAVE BEEN CALCULATED TO THE NEAREST I/IG" AND MAY BE CHANGED TO THE NEAREST I/8", NOTE:

SCAFFOLDING-TITLE

DRWG. NO. D.C.B. APPRV'D BY R.A. WONDER TRUSSLESS BUILDING, INC. CHICAGO, ILL CHK'D BY PART NO. SCALE NO SCALE DR. SY R. R.B.B. B.

12-29-58



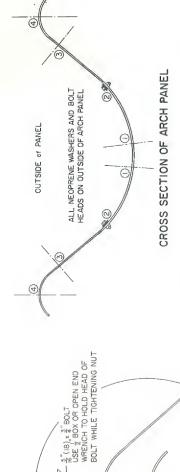


### CAULKING NOTES

- USE A # BEAD AT ALL SEAMS.
- ALWAYS APPLY CAULKING TO UNDERSIDE OF SHEET BEING PLACED INTO POSITION.  $\bigcirc \otimes$
- CAULKING SHOULD BE PLACED ON A LINE BETWEEN BOLT HOLES AND WEATHER EDGE OF SHEET. ALWAYS APPLY CAULKING TO CLEAN DRY SURFACE. (P)

WEATHER EDGE OF ARCH PANEL \_\_\_\_

4" BEAD CAULKING STRIP



DO NOT TURN HEAD OF BOLT WHEN TIGHTENING NUTS. TIGHTEN BY TURNING NUT ONLY. NEOPRENE WASHER WILL COMPRESS AND COMPLETELY SEAL BOLT HOLE IF BOLT IS TIGHTENED CORRECTLY REPLACE ALL WASHERS TORN

IN ORDER TO ASSURE TIGHT JOINTS, PROCEED AS FOLLOWS:

OR IMPROPERLY SEATED BY INCORRECT BOLT TIGHTENING.

음 (18) NUT USE 홈 WRENCH OR SOCKET (8 POINT) TO TIGHTEN NUT

€ ARCH BOLT HOLES

- $\bigcirc$  PLACE DRIFT PINS IN HOLES  $^{\#}2$  & 4, ALIGN HOLES, INSERT BOLTS IN HOLES AND TIGHTEN NUTS.
- (2) REMOVE DRIFT PINS FROM HOLES  $^{\#}$ 2, PLACE IN HOLES  $^{\#}$ 3, INSERT BOLTS IN HOLES  $^{\#}$ 2 AND TIGHTEN NUTS.
- (3) REMOVE DRIFT PINS FROM HOLES #3, INSERT BOLTS AND TIGHTEN NUTS.
- (4) REMOVE DRIFT PINS FROM HOLES #4, INSERT BOLTS AND TIGHTEN NUTS.



ARCH

DO NOT BOLT——— UNTIL NEXT PANEL IS IN PLACE

USE DUMMY BOLTS IN THESE HOLES

TOPSIDE

USE ½" BOX OR OPEN END WRENCH TO HOLD HEAD OF BOLT WHILE TIGHTENING NUT 음 (18) x 꽃 BOLT



FEAD CAULKING STRIP

-WEATHER EDGE OF ARCH PANEL

NEOPRENE WASHER



USE 18 WRENCH OR SOCKET (8 POINT)
TO TIGHTEN NUT 종 (IB) NUT



WONDER TRUSSLESS BUILDING, INC. CHICAGO, ILL

DETAIL SHOWING LOCATION OF VALLEY CAULKING STRIP

EXPLODED VIEW SHOWING CAULKING B BOLTING OF ARCH TO BASE CONNECTOR

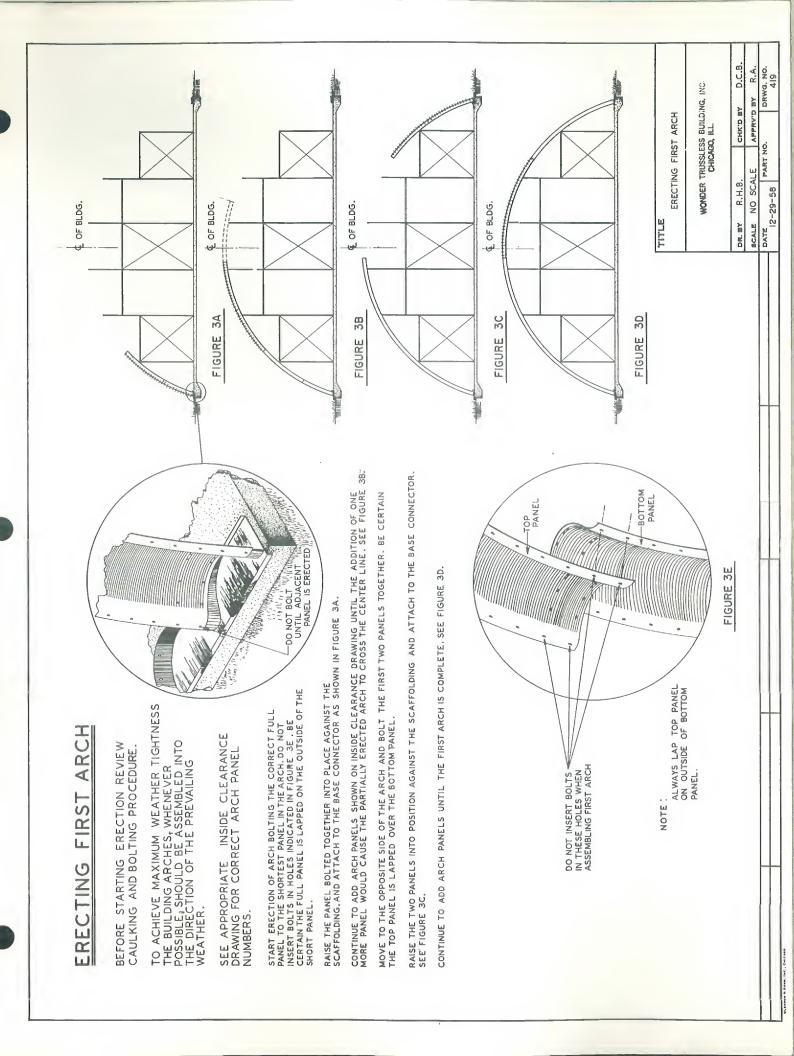
# BEAD CAULKING STRIP

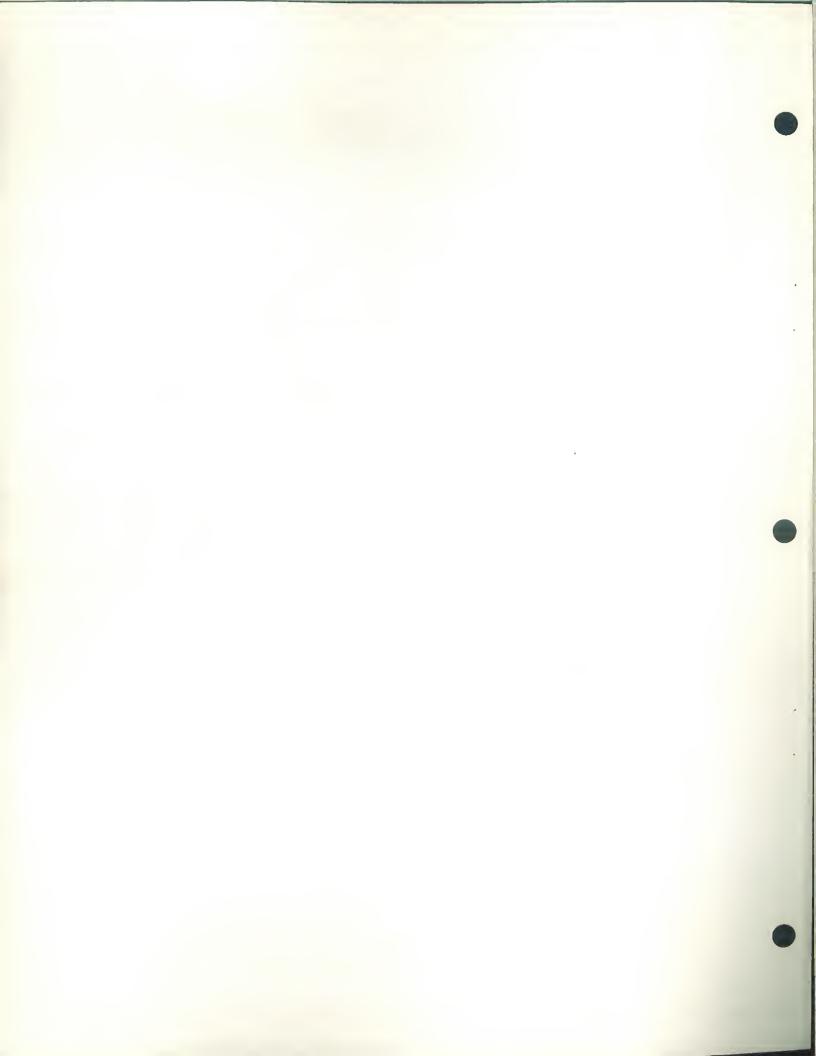
UNDERSIDE of ARCH

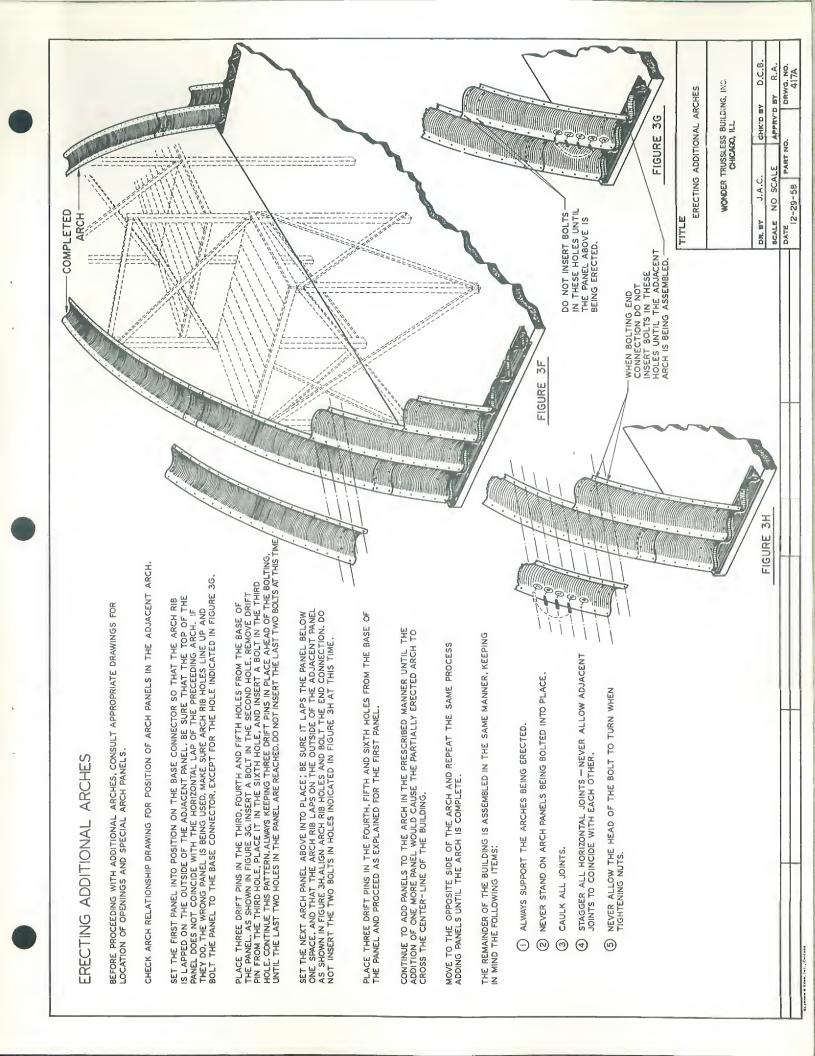
DR. BY	J.A.C.		CHK'D BY		D.C.B.	
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DR. BY	J.A.C.	CHK'D BY	Y	D.C.B.	
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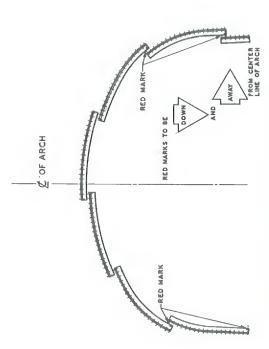


## ERECTING U-TYPE ARCHES

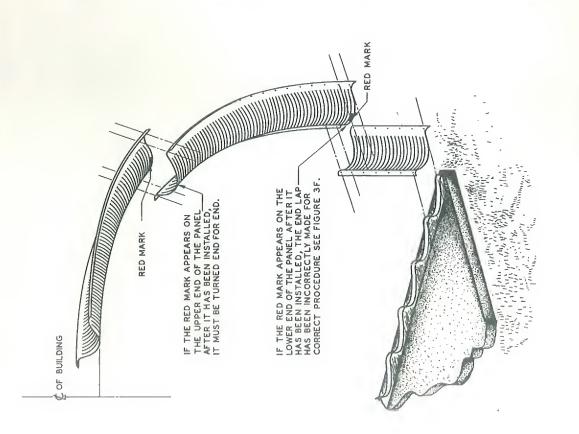
THE PROCEDURE OUTLINED IN THIS MANUAL IS BASIC AND CAN BE APPLIED TO ANY BUILDING REGARDLESS OF SIZE OR SHAPE. HOWEVER, UNLIKE ONE-CENTER ARCHES. PANELS IN U-TYPE ARCHES HAVE POSITION AND DIRECTION. BECAUSE MANY OF THE ARCH PANELS RESEMBLE EACH OTHER AND ALSO BECAUSE OF THE SIMILARITY OF PART NUMBERS THE ENTIRE PART NUMBER MUST BE USED WHEN LOCATING THE POSITION OF ARCH PANELS.

A RED WARK HAS BEEN STAMPED AT THE BOTTOM OF ALL DOUBLE RADIUS ARCH PANELS TO INDICATE THEIR CORRECT DIRECTION. THE END OF THE PANEL WITH THE RED MARK ALWAYS GOES DOWN AND AWAY FROM THE CENTER LINE OF THE BUILDING. WHEN THE ARCH IS CORRECTLY ASSEMBLED ALL OF THE RED MARKS WILL BE COVERED BY THE END LAPS OF THE PANELS. IF AFTER THE PANEL HAS BEEN INSTALLED THE RED MARK STILL APPEARS, IT HAS BEEN INCORRECTLY PLACED AND MAY BE CORRECTED EITHER BY TURNING THE PANEL END FOR END OR BY REVERSING THE END LAP.

CONSULT APPROPRIATE INSIDE CLEARANCE DRAWING FOR CORRECT ARCH PANEL POSITION.

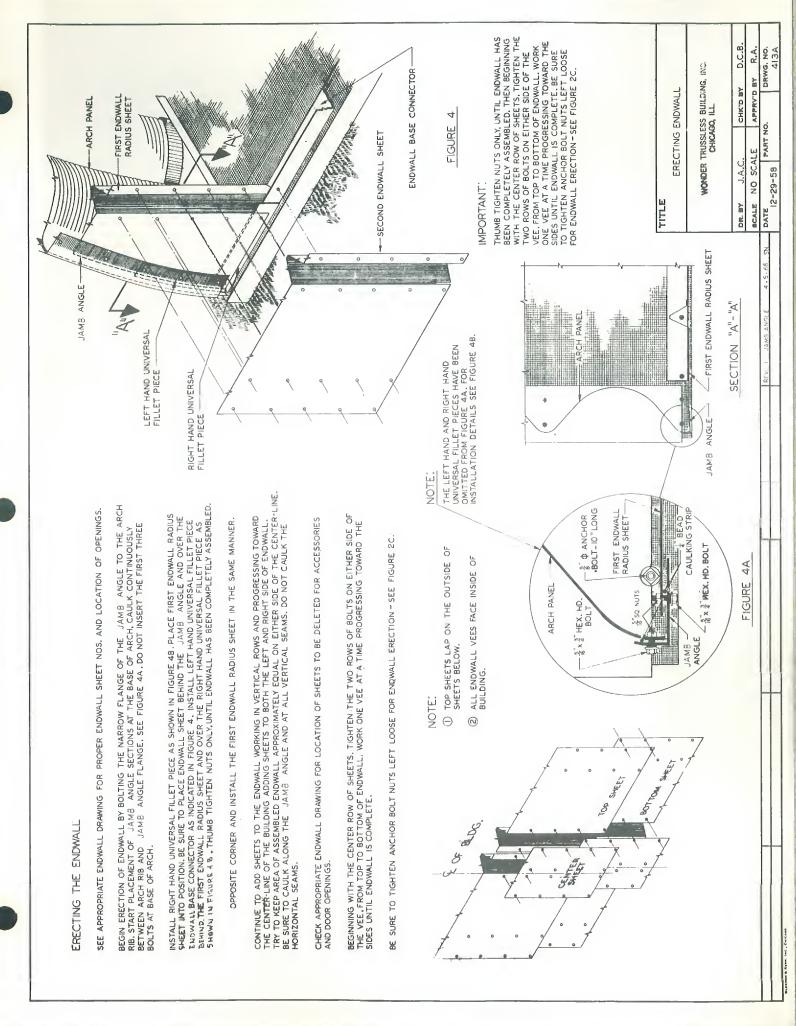


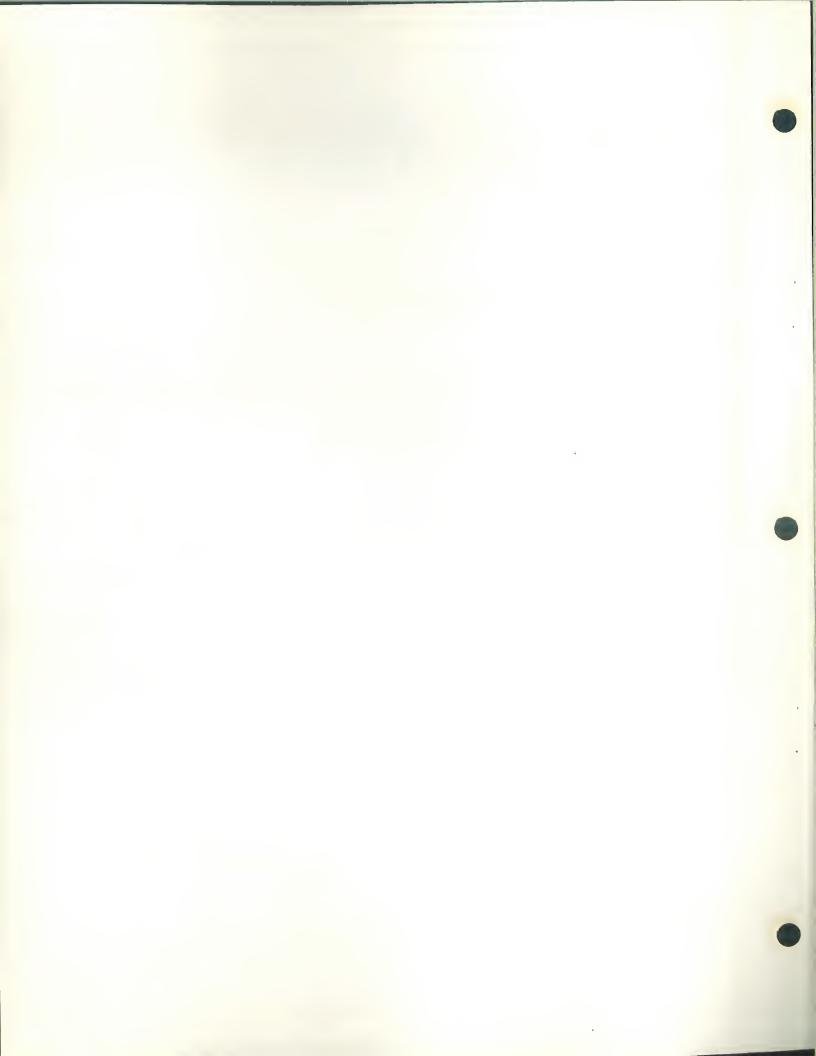
TYPICAL ASSEMBLY OF U-TYPE ARCH



E ARCHES	BUILDING, INC.	CHKID BY D.C.B.	PPRV'D BY R.A.	DRWG. NO.	420
ERECTING U-TYPE ARCHES	WONDER TRUSSLESS BUILDING, INC.	DR. BY J.A.C.	SCALE NO SCALE	DATE PART NO.	12-20-58
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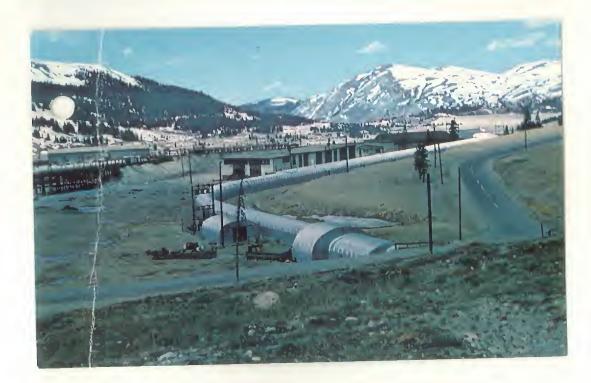




## DRWG. NO. CHK'D BY D.C.B. TITLE UNIVERSAL FILLET PIECE INSTALLATION WONDER TRUSSLESS BUILDING, INC. CHICAGO, ILL UNIVERSAL FILLET PIECE PART NO. DATE NO SCALE LEFT HAND DR. BY R. H.B. UNIVERSAL FILLET PIECE RIGHT HAND UNIVERSAL FILLET PIECE (INSTALLED UNDERFEATH BOTH SIDEWALL & ENDWALL BASE CONNECTOR.) RIGHT HAND ENDWALL BASE CONNECTOR 0 0 0 ENDWALL SHEET PLACE 0 0 (0 RIGHT HAND CORNER OF BUILDING UNIVERSAL FILLET PIECES IN FOUNDATION ARCH PANEL FIRST ENDWALL RADIUS SHEET FIG. 4B JAMB ANGLE $\bigcirc$ 6 000 SIDEWALL BASE CONNECTOR LEFT HAND UNIVERSAL FILLET PIECE (LAPPED UNDERNEATH JAMB ANGLE.)







## LIGHT MANUFACTURING PLANT

50 foot straight side unit used for manufacturing of fishing lures in Winter Park, Florida.



WONDER Trussless BUILDING, Inc. Chicago 60650



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Address

SNOW COVER
High in the Colorado Rockies the problem of keeping heavy snows from clogging rail trackage is overcome with various Wonder Arches.



WONDER Trussless BUILDING, Inc. Chicago 60608



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